Prepared for:
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PHASE I ENVIRONMENTAL SITE ASSESSMENT BIG STAR PROPERTY 18001 EAST INTERSTATE 10 CHANNELVIEW, HARRIS COUNTY, TEXAS

TWE Project Number 11.12.014

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SUMMARY

Tolunay-Wong Engineers, Inc., was retained by San Jacinto River Fleet, LLC, to conduct a Phase I ESA for the Big Star Property located at 18001 E. Interstate 10 in Channelview, Harris County, Texas, and described from tax records as approximately 153 acres in the J.T. Harrell Survey. The purpose of the Phase I ESA was to document environmental conditions at the Site and adjacent properties. This was done by identifying, to the extent feasible, pursuant to the process described in the *American Society for Testing and Materials (ASTM) Standard Practice for ESA's (ASTM E-1527-05*), recognized environmental conditions (RECs) at the Site.

This study has identified several RECs associated with the Site. The environmental database report identified Otto Marine Enterprises, one of the previous occupants of the Site, as a RCRA facility with eleven (11) violations occurring between 1987 and 2005. Regulatory correspondence indicates that outstanding issues for this operation have been resolved and no further action is required. The environmental database report also noted four surface releases in the ERNS database; ten surface releases in the NRS database, a diesel fuel storage tank removal in the PST database, and two IHW listings at the Site. Most of the surface releases appear to have affected only the San Jacinto River and are therefore of no concern to the Big Star Property. Information on the diesel tank removal and the IHW listings gave no indication of releases that may have resulted in regulatory participation. One spill reported in the NRS database was on land and is believed to have been addressed along with the 11 violations cited above.

For off-site locations, the most significant REC reported by the environmental database is the San Jacinto River Waste Pits (SJRWP) Superfund Site, where dioxin contaminated paper mill waste was disposed during the 1960's and 1970's. TWE's review of third party soil analytical data indicates that Big Star Property has been impacted minimally by dioxins from the SJRWP Site except at one isolated location on the east side of the property where an increasing concentrations with depth raised a concern of whether the Site specific health based criterion of 374 ng/kg might be exceeded at, as of yet, unsampled depths of 2-3 feet. Survey results and field observations provided enough information to establish the sample location's close proximity to the mean high water mark, ensuring that deeper samples would occur below the mean high water mark and therefore in the groundwater zone. Further, field observations indicate that at least some of the time, the sample location is inundated. Hence, TWE concludes that under these conditions, worker exposure is unlikely and further characterization is not necessary.

The Site reconnaissance identified several other RECs, including seven pipelines observed along the southern boundary of the Site, a valve station located near the southwest corner of the Site, and confirmation of the SJRWP Superfund Site. Four of the pipelines and the valve station may require further evaluation for potential releases. Shipbuilding, shipping maintenance facilities, and harbor maintenance facilities were observed to the south of Interstate 10; however, these facilities do not pose a significant threat to the Site due to distance and the topography of the area. Other RECs identified include a release of 3,000-gallons of benzene release, also south of the Site in 1980. The 3,000-gallon release of benzene is not considered a risk to the Site.

TWE recommends a Phase II ESA to evaluated potential releases from the pipelines and valve station.

1 INTRODUCTION

Tolunay-Wong Engineers, Inc., was requested by San Jacinto River Fleet, LLC, to conduct a Phase I ESA for the Big Star Property located at 18001 E. Interstate 10 in Channelview, Harris County, Texas, and described from tax records as approximately 153 acres in the J.T. Harrell Survey.

1.1 PURPOSE

The purpose of the Phase I ESA was to document environmental conditions of the Site and adjacent properties. This was done by identifying, to the extent feasible, pursuant to the process described in the *American Society for Testing and Materials (ASTM) Standard Practice for ESA's (ASTM E-1527-05*), recognized environmental conditions (RECs) at the Site. "Recognized environmental conditions" include:

> "the presence or likely presence of any hazardous substance or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water on the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions." (ASTM-E-1527, 2005).

1.2 DETAILED SCOPE-OF-SERVICES FOR THE PHASE I ESA

The work for this report was conducted in accordance with TWE Proposal No. P11-E027, dated April 7, 2011, with authorization to proceed received from Mr. Brian Darnell of San Jacinto River Fleet, LLC, on April 11, 2011.

The scope of services for this project included:

1. A historical review of the prior owners of the Site, including a Chain-of-Title search.

2. A historical review of the land use, including a review of aerial photographs, topographic maps, and the Texas Railroad Commission (RRC) maps.

3. Contact with Federal, State, and Local regulatory agencies to identify records that could indicate negative environmental impacts at the Site.

4. A review of surrounding properties to determine if their land usage or business practices could have contributed to a negative environmental impact to the Site.

5. A Site reconnaissance to evaluate topography and observe conditions on the Site that may suggest environmental impairment.

6. Preparation of this report stating the findings of the Phase I ESA.

Included in this report are conclusions and recommendations as to the evidence of or the potential for RECs at the Site at the time of the investigation.

2 SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION

The Site is a portion of a tract of land that is approximately 153 acres in size. The Site is located largely on the southern bank of the San Jacinto River, west of where the river crosses Interstate 10 in Channelview, Harris County, Texas. See Figure 1 - Site Map. A detailed legal description is presented in Section 3.1 of this report. Two small islands located in the river toward the northeast are also included as part of the property. These two islands are discussed primarily in the section on site characterization.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

2.2.1 Topography

The 1995 *US Geologic Survey 7.5 Minute Highlands, Texas, Quadrangle Topographic Map* was used to evaluate the Site. According to the topographic map, the general topographic gradient at the Site is very slight toward the river with an elevation approximately 5 to 15 feet above mean sea level (msl). In addition to the general topography of the Site, other features of note shown on the topographic map include the following:

- The Site appears to be a developed tract of land;
- The black, rectangular shaped box shown on the Site typically indicates some type of commercial development;
- Pipelines are visible along the southern boundary of the Site;
- The San Jacinto River is visible to the north and east of the Site;
- Development, including a park, is visible to the west of the Site;
- Interstate 10 is visible to the south of the Site;
- Development is visible to the south of Interstate 10;
- The development to the south of Interstate 10 included black, rectangular shaped boxes, which indicate some type of commercial development related to activities occurring on the river.
- Islands and shallow areas are visible in the San Jacinto River.

RECs identified on the topographic map include the two pipelines shown along the Site's

southern boundary. Potential RECs identified on the topographic map include the black, rectangular shaped boxes, which indicate some type of commercial development along the banks of the San Jacinto River. Conditions and features on the topographic map are more comparable to those shown on the 1986 aerial photograph than to current conditions. See Figure 2 - Topographic Map.

2.3 CURRENT USE OF THE SITE

Other than a dilapidated warehouse, the Site is a vacant tract of land with no occupants.

2.4 DESCRIPTIONS OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

There are two structures on the Site. One is a large, partially standing metal building similar to a warehouse structure. On the structure some portions of walls were missing. To the south of the building are a boat slip, dock piling, and large concrete blocks with rigging for wenches and pulleys. The majority of the Site was a gravel-covered parking and/or staging lot. Since the facility has been vacant for some time, grass and weed cover was observed throughout the graveled areas. The locations of seven pipelines were marked with pipeline markers and are situated along the southern boundary of the Site.

2.5 CURRENT USES OF THE ADJOINING PROPERTIES

To the north is the San Jacinto River, then generally single-family residential properties located within subdivisions situated along the opposite banks of the river. Commercial facilities were observed along the major thoroughfares and along the banks of the San Jacinto River. To the south is Interstate 10, then a variety of businesses and industries generally associated with shipping vessel construction and maintenance. To the east are the SJRWP Superfund Site, the San Jacinto River and islands, then commercial and residential properties situated along the opposite banks of the San Jacinto River. The SJRWP Superfund Site is an east adjoining property where dioxin impacted media has been discovered and is being remediated. To the west is a mixture of residential and commercial properties and the Meadowbrook Park.

3 USER PROVIDED INFORMATION

3.1 TITLE RECORDS

A 50-year Historical Chain-of-Title search was conducted by Residential Services, LP, utilizing legal descriptions provided by San Jacinto River Fleet, LLC. Information in the Chain-of-Title search spans from 1929 to 2011. See Appendix A - Historical Chain-of-Title.

According to the Historical Chain-of-Title report, the Site consists of three tracts of land. Tract 1 is described as 145 acres of land (per HCAD) out of the J.T. Harrell Survey, A-330, Harris County, Texas. The HCAD account number is 042-235-000-0085. Tract 2 is described as 7.87 acres of land (per HCAD) out of the J.T. Harrell Survey, A-330, Harris County, Texas. The HCAD account number is 042-235-000-0086. Tract 3 is described as 0.74 acres of land (per

HCAD) out of the J.T. Harrell Survey, A-330, Harris County, Texas. The HCAD account number is 042-235-000-0158.

The owner of record is Big Star Barge and Boat Company. In August of 1980, Big Star Barge and Boat Company acquired Tract 1 from M. Michael Gordon and Frank F. Spata who had acquired Tract 1 in 1943. In July of 1976, Big Star Barge and Boat Company acquired Tract 2 from Triumph Industries who had acquired the property in December of 1973. Prior to December of 1973 Tract 2 had been owned by Marina Realty Corporation, various individuals, and San Jacinto River Estates, Inc. Tract 3 was acquired from Parker Brothers & Company by Big Star Barge and Boat Company in July of 1988. Parker Brothers & Company acquired a one half interest in Tract 3 in 1954 and half interest in Tract 3 in 1956. Prior to 1954 Tract 3 was owned by various individuals. The title search goes on to state that Big Star Barge and Boat Company acquired all of the tracts in June of 2004 from Houston International Terminal (HIT). However, the title search did not indicate when HIT acquired the property.

In October of 1967 Gulfstream Industries was given a two-year lease on 7.87 acres (Tract 2) by Marina Realty Corporation. In April of 1988 American Hunter Exploration Company was given a 3-year lease for oil, gas, and mineral exploration. In May of 1988 Houston Lighting and Power Company was given an easement for the installation and maintenance of power lines. No other easements, right of ways, or surface leases affecting the surface estate are reported.

3.2 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

No environmental liens or environmental activity use limitations were reported in any of the documentation reviewed as part of this Phase I ESA.

3.3 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

The Client provided site characterization data, collected by EPA contractors, for establishing the extent of off-site releases of dioxins for the SJRWP Superfund Site. These data are presented in Sections 4 below.

3.4 PROPERTY MANAGER AND OCCUPANT INFORMATION

There are no property managers or occupants.

3.5 REASON FOR PERFORMING THE PHASE I ESA

The Client requested the Phase I ESA as part of the due diligence process prior to purchase of the Site.

4 RECORDS REVIEW

The objective of the records review is to obtain and review records that will help identify RECs in connection with the Site.

4.1 STANDARD ENVIRONMENTAL RECORD SOURCES

Atlas Environmental Research, Inc., was contracted to perform a regulatory records search. Environmental databases were searched within a radius as defined by *ASTM E-1527-05* and presented in the *Atlas Regulatory Data Report* (Appendix B). The Report Summary section of the database report defines the search criteria of the regulatory databases reviewed. The objective of the records review is to obtain and review records that will help identify recognized environmental conditions in connection with the Site.

A total of one hundred and thirty two (132) database listings at eleven (11) addresses were listed in the *Atlas Regulatory Data Report*, with six addresses considered the locations of twenty (20) RECs because of their proximity of the address to the Site. Of the twenty (20) RECs identified, seventeen (17) were identified at the Site. The following table describes the RECs identified in the environmental database report. Note that most of the RECs dealt with releases to the San Jacinto River and not to the property itself

Table 1: *Atlas Regulatory Data Report* Identified RECs

Facility Name	Facility Address	Database(s)	Facility ID	Proximity
San Jacinto River Waste Pits	West bank of San Jacinto River	NPL	TXN000606611	EAP
Disposal site for dioxin contaminated paper mill wastes generated by Champion Paper Co. during the 1960's and 1970's.				
Otto Marine Enterprises	18001 E. I-10	RCRA	TXD980699052	SITE
Recyclable material wholesaler. Database report indicates fourteen (14) evaluations between 1987 and 2008. Eleven (11) violations are reported and occurred between 1987 and 2005. Eight enforcements were taken at the Site and occurred between 1987 and 2005.				
Not Reported	18001 E. I-10	ERNS	264182	SITE
In April of 1992, there was a release of an unknown material that potentially affected the San Jacinto River. The quantity of the material released is unknown.				
Not Reported	18001 E. I-10	ERNS	385802	SITE
In March of 1993, there was a release of an unknown amount of oil that potentially affected the San Jacinto River.				
Reliant Energy Company	18001 E. I-10	ERNS	612632	SITE
In July of 2000, an unidentified amount of transformer oil was released. The affected waterway was not reported and the oils contained no polychlorinated biphenyls (PCBs).				
Megasand Enterprises, Inc.	18001 E. I-10	ERNS	613504	SITE
In September of 2000, one gallon of motor oil was released that potentially affected the San Jacinto River.				

Table 1: *Atlas Regulatory Data Report* Identified RECs (Cont.)

Facility Name	Facility Address	Database(s)	Facility ID	Proximity
Not Reported	18001 E. I-10	NRS	115993	SITE
In April of 1992, an unknown sheen was observed and reported floating into the 18001 E. I-10 facility. The sheen was 200 feet by 5 feet wide and was black in color with traces of brown. The material had a sweet odor. (Note: the Atlas report describes this sheen as 0.5 ft wide, however we believe it meant 5 ft wide.)				
GSX Recovery Systems	18001 E. I-10	NRS	16694-89	SITE
Approximately 50 gallons of waste oil was released into the water in September of 1989.				
Not Reported	18001 E. I-10	NRS	229939	SITE
A sheen that was approximately 2 feet by 200 feet wide was reported in March of 1994. The sheen was composed of an unknown oil.				
ECD	18001 E. I-10	NRS	307790	SITE
In September of 1995, ten barrels of unleaded gasoline were released from shore tank valves that were not secured. The release potentially affected the San Jacinto River.				
Reliant Energy Company	18001 E. I-10	NRS	535813	SITE
In July of 2000, a caller reported that a utility pole fell into the water which resulted in two, pole-mounted transformers releasing oils into the water. The oils were believed to contain PCBs, and approximately 25 gallons of oils were released.				
Megasand Enterprises, Inc.	18001 E. I-10	NRS	542245	SITE
In September of 2000, approximately one gallon of motor oil was released into the water.				
O.M.E. Corp.	18001 E. I-10	NRS	63864	SITE
In March of 1991, approximately 10 barrels of slop oil was released from a tanker resulting in a sheen of unknown size. The release impacted the San Jacinto River.				
O.M.E. Corp.	18001 E. I-10	NRS	76805	SITE
In June of 1991, a valve was opened by vandals resulting in a sheen of unknown size and color. An unknown quantity of crude oil was released.				
Otto Marine	18001 E. I-10	NRS	766458	SITE
In July of 2005, third party information was reported indicating that several abandoned storage tanks were leaking unknown materials onto the ground near the San Jacinto River.				
Glendale Ship Yard	Market St.	NRS	52819	SAP
In May of 2000, approximately one gallon of diesel fuel was release from the port fuel tank of a vessel. Approximately 0.5 gallons of diesel fuel entered the water.				

Table 1: *Atlas Regulatory Data Report* Identified RECs (Cont.)

Facility Name	Facility Address	Database(s)	Facility ID	Proximity
Ray Ferguson Interests, Inc.	18001 I-10	PST	0056544	SITE
One 10,000-gallon, steel, diesel fuel tank was installed in 1986 and taken out of service in August of 2003.				
OME Corporation	18001 I-10	IHW	33729	SITE
Inactive waste generator classified as a Wholesale Trade-Scrap and Waste Materials. Not a hazardous waste generator.				
Not Reported	18001 I-10	IHW	37400	SITE
Inactive, non-classifiable establishment. Generator type, EPA ID, and owner not provided in environmental database report.				
Musgrove Towing Company	18200 Market St.	HSPILLS	3862	SAP
A 3,000-gallon benzene release in July of 1980. The responsible party was Don's Slop Service.				

*Database acronyms are listed and defined in the *Atlas Regulatory Data Report*.
EAP - East Adjoining Property
SAP – South Adjoining Property

4.2 ADDITIONAL ENVIRONMENTAL RECORD SOURCES

4.2.1 Railroad Commission Pipeline and Oil & Gas Maps

The RRC Public GIS Map Viewer online mapping service (http://www.rrc.state.tx.us/gis) was used to determine if pipelines, oil wells, or natural gas wells are present on the Site or adjacent properties. Based upon the RRC Public GIS Map review, there are two pipelines, one a crude transmission pipeline and the second a non-HVL products pipeline, that are situated along the southern boundary of the Site. A plugged gas well is visible to the west of the Site. No other oil wells, natural gas wells, or pipelines are visible at or near the Site. See Figure 3 – RRC Public GIS Map.

4.3 PHYSICAL SETTING SOURCES

4.3.1 FEMA FIRM

The Federal Emergency Management Agency Flood Insurance Rate Map (FEMA FIRM), Community Panel Numbers 48201C0740 L (June 9, 2006) and 48201C0745 L (June 9, 2006) were used to evaluate the Site relative to flood zones. The FEMA FIRM shows the Site to be located in an area classified as hatched Zone AE. A hatched Zone AE area is a floodway in the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so

that the 1% annual chance flood can be carried without substantial increases in flood heights. See Figure 4 – FEMA FIRM Map

4.4 HISTORICAL USE INFORMATION ON THE SITE AND ADJOINING PROPERTIES

4.4.1 City Directories

Atlas was contracted to perform a city directories search to obtain listings of residences, businesses, and/or professional concerns that have occupied an address at or near the Site. The City Directory Research report listings are generally in five to six year increments beginning in 1975 and continuing through 1984, and 2002. In 2002, Mega Sand Enterprises and OME Corporation occupied the Site. There were no listings for the Site in the directories search prior to 2002, and as a result, research was stopped in 1975. There are also no listings for the portion of Market Street that is near the Site. Operations at Mega Sand Enterprises are considered RECs due to activities associated with sand dredging operations. It is likely that the dredging operations produced hazardous or regulated waste and used significant amounts of hydrocarbon products such as lubricating oils and diesel fuel. The Atlas City Directory Search report is presented in Appendix C.

4.4.2 Sanborn Map Review

In the late nineteenth century, mapping companies began preparing maps for fire insurance companies to use in estimating insurance coverage and premiums. These maps specified the construction materials used for business/commercial structures in developed urban areas. With the advent of retail gasoline service stations, the approximate locations of tanks were noted, often without AST or UST designations. Periodically, throughout the twentieth century these maps were updated and expanded geographically. Atlas's search for Sanborn fire insurance maps identified no maps that covered the Site and surrounding areas.

4.4.3 Aerial Photography

TWE sourced historical aerial photographs for the Site from Atlas. Atlas provided photos from 1944, 1957, 1969, 1979, 1986, 1996, and 2009. These historical aerial photographs are contained in Appendix D of this report.

The 1944 aerial photograph shows the Site to be a wooded and barren tract of land situated along the banks of the San Jacinto River. While no permanent structures are visible, unimproved roads or paths are visible. What is currently Interstate 10 is visible to the south of the Site, and roadways are visible to the west of the Site. A spit of land is visible to the east of the Site and connects at the northeast corner of the Site. Portions of the land that is currently submerged, or have been dredged through sand mining, is shown as dry land in the 1944 aerial photograph.

The 1957 aerial photograph shows the Site to be under development. Unimproved roadways are visible connecting the interior of the Site to what is now Interstate 10. A small inlet has been dug into the Site and what appears to be a barge is positioned near the mouth of the inlet where it leads into the San Jacinto River. The development to the west is still visible, and what appear to be structures related to commercial/industrial development are also visible to the west. To the

south of what is now Interstate 10, land clearing operations have begun and were not visible in the 1944 aerial photograph.

In the 1969 aerial photograph the Site's topography shows evidence of succumbing to subsidence along the banks of the river. A large, permanent structure is visible at the south end of the inlet that was observed on the 1957 aerial photograph. The configuration of the roadways on the Site has changed, and there appears to be a boat dock just to the north of the large permanent structure mentioned earlier in this paragraph. The properties to the south of Interstate 10 have undergone additional development. To the east, disposal or dumping activities appear to have commenced at what is now the SJRWP Superfund Site.

The 1979 aerial photograph shows the Site to be situated on a much smaller parcel of land as subsidence has allowed the river to claim significant portions of land. Docks, a large permanent structure, and parking lots are visible on the Site. The properties to the south of Interstate 10 appear to be heavily involved in barge activities such as terminals or repair facilities. The future SJRWP Superfund Site is now isolated from the surrounding areas due to subsidence.

In the 1986 aerial photograph, the Site property appears to be somewhat larger and docks are clearly visible. Barges are visible in the water, and what appear to be cargo containers are visible to the west of the docks. The permanent structure visible in earlier aerial photographs is still visible. Ground cover on the Site appears to be gravel but does not appear to be concrete or asphalt. The properties to the south of Interstate 10 appear to be relatively unchanged, and property usage appears to be the same. The future SJRWP Superfund Site appears essentially unchanged in this photograph.

In the 1996 and 2009 aerial photographs the Site and surrounding properties appears to be relatively unchanged from the 1986 aerial photograph.

The aerial photographs reveal the existence of several potential RECs on the Site and on the surrounding properties as well. Some potential RECs include releases of hazardous materials during ship building operations, uses of various hydrocarbon products during maintenance operations, and storage of hazardous or petroleum-based products at the various locations. It should be noted that no RECs are directly identified on the aerial photographs.

4.5 SOIL TESTING - DIOXIN IMPACT EVALUATION

The evaluation of dioxin impact to the Big Star Property is based on existing analytical data that were collected under regulatory oversight for the SJRWP Superfund Site. The SJRWP is located just east of Big Star Property and separated from the latter by a former sand mining operation that is currently inundated. In the course of characterizing the SJRWP site, soil and sediment samples were collected from the surrounding areas and analyzed for dioxins and furans.

For this evaluation, two aspects of soil data were assessed:

- absolute concentrations reported in terms of 2,3,7,8 tetrachlorodibenzo-p-dioxin (TCDD) toxicity equivalents (TEQ),
- spatial trends in TEQ concentration.

Site data were provided in two formats. One is tabulated analytical results for a soil sampling event that was completed at the Big Star Property independently of other off-site sampling events completed for SJRWP (Appendix E). The other is a site characterization figure illustrating the distribution of analytical results at SJRWP and surrounding areas including Big Star Property (Appendix F). The tabulated data comprise a total of 38 samples collected from 15 boreholes ranging from 1 to 2 feet deep. Sample locations were numbered from SJTS014 through SJTS028 (Figure 5). Samples were collected at depths of 0-6" (0 - 15.24 cm), 6-12" (15.24 - 30.48 cm) and 12-24" (30.48 - 60.96 cm) of depth in eight of the boreholes and at 0-6" and 6-12" of depth in seven of the boreholes. For this study, each sample ID includes the sample location and the end depth of the sample in centimeters. For example SJTS025 30.48 represents the sample collected at 15.24 to 30.48 cm (6-12") from borehole SJTS025. These results are summarized in Table 2. Data from the SJRWP site characterization map (Appendix F) provide results for samples collected at 0-6" and 6-12" depth intervals from 13 boreholes on Big Star Property as well as a series of surface grab samples from the river bottom and mid-river islands that are included in the Big Star Property purchase. The relevant sample locations on Big Star Property are designated at Unk-1 through Unk-11 and are highlighted in yellow in Appendix F. The relevant sample locations (Unk-12 to Unk-16) from the mid-river islands are circled in red but carry no IDs since they do not present any contamination issues. Sample results for the latter are not tabulated for this report.

Each soil sample listed in Table 2 was analyzed for dioxins, furans, metals, total organic carbon, moisture content, and grain size analysis. This data review considers only the dioxin and furans. Results reported by the laboratory include the 17 most toxic congeners for dioxins and furans as well as the totals for each homolog. A homolog represents all of the congeners in a particular class of dioxins or furans. For example, all of the possible congeners of hexadibenzo-p-dioxin would be considered the homolog for hexa-dioxin. There are five dioxin homologs (tetra-, penta-, hexa-, hepta- and octa-dioxin) and five furan homologs (named similarly). From each homolog, EPA has chosen one or more congeners that they consider toxic enough to address individually. These individual congeners make up the group of 17 compounds. The remaining congeners, while toxic, are not considered toxic enough to affect the overall toxicity of the dioxin/furan mixture.

Hence, the 17 toxic congeners are used to establish the overall toxicity of the dioxin/furan mixture. This is done by determining a toxicity equivalency factor (TEF) that establishes the toxicity of each dioxin and furan congener relative to 2,3,7,8-TCDD. The concentration of each dioxin and furan congener is multiplied by its respective TEF and the results summed to arrive at a concentration that is equivalent to the toxicity of the mixture if it were all 2,3,7,8-TCDD. This is termed the toxicity equivalent (TEQ) concentration. Table 2 lists the concentration of each of the 17 congeners of dioxin and furan and the TEQ for each sample. Also listed in the column adjacent to the congener names are the TEFs. For example, the TEF for octadioxin is 0.001 which means that octadioxin is 1/1000 as toxic as 2,3,7,8-TCDD. Similarly, 2,3,7,8-tetrafuran has a TEF of 0.1, indicating a toxicity of 1/10 the toxicity of 2,3,7,8-TCDD. The TEQs for each sample are tabulated in the bottom row of the table. These TEQ concentrations are the ones that are use in characterizing the Big Star Property. Note that the results reported on the figure in Appendix F are already in TEQ concentrations.

The TEQ results for Big Star Property were reviewed for trends in horizontal distribution, trends in vertical distribution, and regulatory compliance. Figure 6 qualitatively illustrates the horizontal distribution of TEQ concentrations using color coding. Each location is color coded according to the sample with the highest TEQ for that location. The color coding was designed to provide a visual impression of any horizontal concentration trends as well as the locations of problem areas where samples exceed regulatory limits. For this study, the most conservative regulatory limit of 50 ng/kg established by ATSDR was used for screening soil TEQ results. This represents the exposure limit for children, considering all exposure pathways such as ingestion, inhalation, and dermal contact. More lenient risk based concentrations are established in the Risk Assessment detailed below.

Sample locations that come in under the regulatory limit of 50 ng/kg are color coded in various shades of blue, green, and yellow, while those that exceed the ATSDR limit are color coded red. As shown in Figure 6, there does not appear to be any pattern of dioxin/furan distribution over the site. Further, all but one of the sample locations are below the ATSDR limit of 50 ng/kg. The one exceedance is located on the east side of the property and occurs very near or at the mean high water survey line. Figure 6 also shows a river bottom sample adjacent to Big Star Property that exceeds the ATSDR criterion. This latter sample location is in public waters and therefore not relevant to this study but was shown to illustrate a horizontal pattern of dioxin impact toward the SJRWP site.

For sample locations at the mid-river islands, all of the TEQ concentrations are extremely low, generally at or less than 1 ng/kg, suggesting little or no impact from SJRWP.

Figure 7, also color coded, provides a visual impression of vertical trends in TEQ concentration on Big Star Property. Decreasing concentration trends with depth are shown in green, and increasing concentration trends with depth are shown in colors ranging from yellow for minor increases to red for significant increases by a factor of ten times or more.

Three noteworthy phenomena were observed in the horizontal and vertical patterns of dioxin/furans. One is that for all of the sample locations in which there is an increasing trend with depth, the vertical extent of dioxin/furans was not established. Two, the increases with depth are more significance near the water's edge, both along the east coast of the property and along the west side of the harbor. Third, there appears to be no correlation between the horizontal trend and the vertical trend, i.e., higher concentrations did not appear at locations where vertical increases were significant near the water's edge.

Taken in context with absolute TEQ values, most of the locations are considered of little concern even though the vertical extent has not been established. This is because the TEQ concentrations at most locations are significantly below the 50 ng/kg ATSDR limit with no expectation of a significant increase with depth. Taken in context with risk based limits derived below, this renders these locations of even less concern. Only one location appears to be of concern: SJTS018 which exhibits an increase by a factor of 20 times from 9.8 ng/kg TEQ to 201.9 ng/kg TEQ. The next highest concentration increase with depth occurs in SJTS020 which exhibits a TEQ concentration increase of 6 times from 0.58 ng/kg TEQ to 3.5 ng/kg TEQ, both of which are inconsequential.

In summary, the dioxin/furan impact to the Big Star Property, including the mid-river islands, appears to be marginal with the possible exception of SJTS018 in which dioxin and furan concentrations not only increase with depth but also exceed the ATSDR limit of 50 ng/kg in the deepest sample at 1-2 ft of depth. As noted above, it is located near or at the mean high water mark. When observed in the field, this sample location was found to be submerged. By definition, the mean high water mark is submerged 50% of the time, hence, sample location SJTS018 may have been observed during high tide. It is noteworthy, however, that because previous samples were collected as deep as 2 feet below ground surface, any samples below this would doubtless place it below the mean high water elevation mark and presumably in the saturated zone. On this basis, worker exposure is considered unlikely; therefore, TWE recommends that this REC be excluded from further consideration.

4.6 HEALTH AND SAFETY

The data collected by EPA for the SJRWP site were incorporated into a Public health Assessment (PHA) developed for the Agency for Toxic Substances and Disease Registry (ATSDR) by the Texas Department of State Health Services (TDSHS) and issued for public comment from April 7, 2011 to May 31, 2011. The document presents the findings of a human health risk assessment for exposure to dioxins and furans and is provided in Appendix G. Since the document is currently in draft form, the information along with the conclusions and recommendations cannot be cited as authoritative. Therefore, any references to or citations from this document will be qualified as tentative. Further, any risk based screening levels calculated for Big Star Property from parameters listed in the draft document will be presented as tentative. However, given that the draft document has already undergone regulatory review the exposure scenarios along with the exposure criteria used are believed to be essentially final and therefore applicable for Big Star Property.

All of the data used in the PHA and provided for the Big Star Property assessment represent soil and sediment media. Note that soil analytical data for locations SJTS014 through SJTS028 that were critical to evaluating Big Star Property were not available when the ATSDR PHA was developed. However, the Big Star Property results appear to be in line with other off-site results gathered for the SJRWP site.

Regarding other pathways, ATSDR tentatively concluded that the air pathway was not significant due to the low volatility of dioxin and furan compounds combined with sufficient vegetative cover to minimize windblown dust. They also tentatively concluded that groundwater and surface water are not significant exposure pathways for human exposure because of their brackish nature and because of the low solubility of dioxins and furans. Therefore, water media have not yet been characterized.

Because exposure scenarios and parameters reported in the ATSDR PHA can only be used in a qualified sense for Big Star Property, this evaluation will provide SJRF with two alternatives for assessing a path forward with the property. One alternative is to compare dioxin/furan data against a universal or non-site specific screening level that has already been established by ATSDR. This alternative will remove any question of the validity of the screening results but could result in some additional characterization and possibly remediation costs. The second alternative is to compare site data with a site specific screening level that was calculated for Big

Star Property from exposure parameters developed for the SJRWP site. This alternative will carry with it some risk of liability if the exposure parameters in the ATSDR PHA are found to be invalid. However, this risk may be offset by minimizing or eliminating further characterization and remediation costs.

Alternative 1 – Non-Site Specific Screening Criterion

Non-site specific screening criteria are typically very conservative since they have to take any exposure scenario into account. In the Public Health Assessment Guidance Manual (ATSDR, 2005), the ATSDR establishes 50 ng/kg as the allowable exposure level in soil. This concentration considers children as the target population and takes into account dermal contact, oral ingestion, and inhalation of dioxin impacted soil.

Table 2 summarizes the concentrations of dioxins and furans both individually and collectively as TCDD TEQ concentrations. For evaluating human health risk at the most conservative level, the TEQ values were compared to the 50 ng/kg screening criterion. All but one sample met the screening criterion. SJTS018 60.96 exceeded the criterion with a TCDD TEQ concentration of 201.9 ng/kg. It is noted that this sample represents the deepest sample (1-2 feet) collected at this location, hence, the vertical extent of dioxins and furans has not been defined here. In addition, a sample collected at or just off the water line during a separate sampling event exhibits a TEQ concentration of 153 ng/kg.

Under Alternative 1, SJRF will need to mitigate this impacted portion of the property either through site remediation or through contractual obligation with the seller or other third party.

Alternative 2 – Site Specific Screening Criteria

In their PHA, the ATSDR evaluated six exposure scenarios for the SJRWP Superfund Site. All six focused on fishermen with accompanying children, each scenario differing by the frequency and duration of exposure. The scenario that most closely approximates the exposure of future workers at Big Star Property is the ***subsistence fisherman*** whose exposure is assumed to be 8 hrs/day, 5 days/week, and 52 weeks/year. This is a reduction from the most conservative exposure duration of 365 days/year. It is also reduced from the more conservative exposure scenarios involving children and other sensitive populations.

In the ATSDR PHA, three exposure pathways were considered: 1) oral ingestion of contaminated sand and soil, 2) dermal contact with contaminated sand and soil and 3) ingestion of contaminated crabs and fish. The last pathway is not expected to be relevant to employees of SJRF and therefore, the risk levels calculated for Big Star Property exclude that pathway. In addition to media (soil) and intake route (ingestion, etc.), carcinogenic and non-carcinogenic exposure risks were also evaluated.

Both the carcinogenic and noncarcinogenic exposure risks involve two exposure routes, oral ingestion of contaminated sediment and dermal contact with contaminated sediment. The total exposure risk for carcinogenic risk is the sum of the risks for the two routes. Similarly, the total risk associated with noncarcinogenic risk is the sum total of the risks for the two routes.

Cancer Exposure Risk

The equations used by ATSDR to evaluate cancer risk are as follows:

<u>Oral Sediment Exposure</u>

$TR_{o,n}$ = AD_o x SF_o x EF_{Ca}

Where:

$TR_{o,n}$ = Theoretical risk from oral exposure at sample location **n**

$AD_{o,n}$ = Oral absorbed dose at sample location **n** ($mg_{TEQ}/kg_{BW}/day$)

SF_o = EPA's oral slope factor for TCDD $(mg_{TEQ}/kg_{BW}/day)^{-1}$

EF_{Ca} = Exposure factor for the chosen scenario (dimensionless).

Oral Exposure Doses from Sediment

AD_o = Total TEQ_n x IR_{sed} x CF_1 x CF_2 x AF_{osed} / BW_{avg}

Where:

AD_o = Oral absorbed dose on exposure days ($mg_{TEQ}/kg_{BW}/day$)

Total TEQ_n = TCDD TEQ concentration in sample n (pg/g = ng/kg)

IR_{sed} = Oral sediment intake rate (mg_{sed}/day)

CF_1 = Conversion factor 1 (10^{-9} mg_{TEQ}/pg_{TEQ})

CF_2 = Conversion factor 2 (10^{-3} g_{sed}/mg_{sed})

AF_{osed} = TCDD oral absorption factor for sediment (unitless)

BW_{avg} = Average body weight over exposure period (kg_{BW})

Exposure factor (accounts for durations less than 365 days/yr)

EF_{Ca} = (Hr_{ex} /24) x (Da_{ex} /7) x (Wk_{ex} /52) x (Yr_{ex} /70)

Where:

EF_{Ca} = Exposure factor (unitless)

Hr_{ex} = Hours per day individual is exposed

Da_{ex} = Days per week individual is exposed

Wk_{ex} = Weeks per year individual is exposed

Yr_{ex} = Number of years individual is exposed

ATSDR calculated or assumed the following values for these parameters:

For AD_o

IR_{sed} = 100 mg_{sed}/day

CF_1 = 1 E-9 mg_{TEQ}/pg_{TEQ}

CF_2 = 1 E-3 g_{sed}/mg_{sed}

AF_{osed} = 0.5

BW_{avg} = 70.58 kg_{BW}

AD_o = Total TEQ_n x IR_{sed} x CF_1 x CF_2 x AF_{osed} / BW_{avg}

AD_o = Total TEQ_n pg_{TEQ}/g_{sed} x 100 mg_{sed}/day x 1 E-9 mg_{TEQ}/pg_{TEQ} x 1 E-3 g_{sed}/mg_{sed} x 0.5 / 70.58 kg_{BW}

AD_o = Total TEQ_n pg_{TEQ}/g_{sed}x 7.0842 E-13 $(mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})$

For SF_o = 150,000 $(mg_{TEQ}/kg_{BW}/day)^{-1}$

For EF_{Ca}

Hr_{ex} = 8 hrs/day
Da_{ex} = 5 days/wk
Wk_{ex} = 52 wks/yr
Yr_{ex} = 30 yrs

EF_{Ca} = $(Hr_{ex}/24) \times (Da_{ex}/7) \times (Wk_{ex}/52) \times (Yr_{ex}/70)$
EF_{Ca} = $(8\ hr/24) \times (5da/7) \times (52wk/52) \times (30yr/70)$
EF_{Ca} = 0.102041

Based on these input parameters, the theoretical cancer risk for oral sediment exposure is:

$TR_{o,n}$ = Total TEQ_n pg_{TEQ}/g_{sed} x 7.0842 E-13 $(mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})$ x 150,000 $(mg_{TEQ}/kg_{BW}/day)^{-1}$ x 0.102041
$TR_{o,n}$ = Total TEQ_n pg_{TEQ}/g_{sed} x 1.0843 E^{-8} g_{sed}/pg_{TEQ}

Taking the maximum TEQ concentration of 201.9 ng/kg for the Big Star Property, this yields a theoretical cancer risk of
$TR_{o,n}$ = 201.9 pg_{TEQ}/g_{sed} x 1.0843 E^{-8} g_{sed}/pg_{TEQ}
$TR_{o,n}$ = 2.189 E-6

Using the rating scale published in the draft PHA, this translates to "No Apparent Increased Lifetime Risk".

<u>Dermal Sediment Exposure</u>

$TR_{d,n}$ = AD_d x SF_d x EF_{Ca}

Where:

$TR_{d,n}$ = Theoretical risk from dermal exposure at sample location **n**
$AD_{d,n}$ = Dermal absorbed dose at sample location **n**
SF_d = EPA's dermal slope factor for TCDD
EF_{Ca} = Exposure factor for the chosen scenario.

Dermal Exposure Doses from Sediment

AD_d = Total TEQ_n x SL_{sed} x SA_{con} x CF_1 x CF_2 x AF_{dsed} / BW_{avg}

Where:

AD_d = Dermal absorbed dose on exposure days $(mg_{TEQ}/kg_{BW}/day)$
Total TEQ_n = TCDD TEQ concentration in sample n (pg/g = ng/kg)
SL_{sed} = Sediment loading per surface area (mg_{sed}/cm^2)

SA_{con} = Skin surface area contaminated with sediment (cm^2/day)
CF_1 = Conversion factor 1 (10^{-9} mg_{TEQ}/pg_{TEQ})
CF_2 = Conversion factor 2 (10^{-3} g_{sed}/mg_{sed})
AF_{osed} = TCDD dermal absorption factor for sediment (unitless)
BW_{avg} = Average body weight over exposure period (kg_{BW})

Exposure factor (accounts for durations less than 365 days/yr).

Same as for oral exposure

ATSDR calculated or assumed the following values for these parameters:

For $\mathbf{AD_d}$

SL_{sed} = 1 mg_{sed}/cm^2
SA_{con} = 2056.41 cm^2/day
CF_1 = 1 x 10^{-9} mg_{TEQ}/pg_{TEQ}
CF_2 = 1 x10^{-3} g_{sed}/mg_{sed}
AF_{osed} = 0.03
BW_{avg} = 70.58 kg_{BW}

AD_d = Total TEQ_n x SL_{sed} x SA_{con} x CF_1 x CF_2 x AF_{dsed} x BW_{avg}

AD_d = Total TEQ_n pg_{TEQ}/g_{sed} x 1 mg_{sed}/cm^2 x 2056.41 cm^2/day x 1 E-9 mg_{TEQ}/pg_{TEQ} x 1 E-3 g_{sed}/mg_{sed} x 0.03/ 70.58 kg_{BW}

AD_d = Total TEQ_n pg_{TEQ}/g_{sed} x **8**.7408 E-13 $(mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})$

For $\mathbf{SF_o}$ = 300,000 $(mg_{TEQ}/kg_{BW}/day)^{-1}$

For $\mathbf{EF_{Ca}}$ = Same as for oral exposure

Based on these input parameters, the theoretical cancer risk for dermal sediment exposure is:

$TR_{d,n}$ = Total TEQ_n pg_{TEQ}/g_{sed} x 8.7408 E-13 $(mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})$ x 300,000 **(**$mg_{TEQ}/kg_{BW}/day)^{-1}$ x 0.102041

$TR_{d,n}$ = Total TEQ_n pg_{TEQ}/g_{sed} x 2.6757 E^{-8} g_{sed}/pg_{TEQ}

Taking the maximum TEQ concentration of 201.9 ng/kg for the Big Star Property, this yields a theoretical cancer risk of:

$TR_{o,n}$ = 201.9 pg_{TEQ}/g_{sed} x 2.6757 E^{-8} g_{sed}/pg_{TEQ}
$TR_{o,n}$ = 5.402 E-6

Using the rating scale published in the draft PHA, this translates to “No Apparent Increased Lifetime Risk”.

The sum total for both oral and dermal exposure routes is 7.591 E^{-6}, resulting in a total cancer exposure risk that is “No Apparent Increased Lifetime Risk”.

Non-Cancer Exposure Risk

The equations used by ATSDR to evaluate the hazard quotient for noncancer exposure risk are as follows:

Oral Sediment Exposure

$$HQ_{co} = AD_o \times EF_{NCa} / MRL_{co}$$

Where:

HQ_{co} = Hazard quotient for chronic oral sediment exposure (mg_{TEQ}/kg_{BW}/day)
AD_o = Oral absorbed dose on exposure days (mg_{TEQ}/kg_{BW}/day)
EF_{NCa} = Exposure factor far chosen scenario (unitless)
MRL_{co} = ATSDR's chronic oral Minimal Risk Level for TCDD (mg_{TEQ}/kg_{BW}/day)

Oral Exposure Doses from Sediment

AD_o = Same as for cancer risk

Exposure factor (accounts for durations less than 365 days/yr)

$$EF_{NCa} = (Hr_{ex} /24) \times (Da_{ex} /7) \times (Wk_{ex} /52)$$

Note: number of years is excluded from equation

ATSDR calculated or assumed the following values for these parameters:

For AD_o:

IR_{sed} = 100 mg_{sed}/day
CF_1 = 1 x 10^{-9} mg_{TEQ}/pg_{TEQ}
CF_2 = 1 x10^{-3} g_{sed}/mg_{sed}
AF_{osed} = 0.5
BW_{avg} = 65.95 kg_{BW}

$$AD_o = \text{Total } TEQ_n \times IR_{sed} \times CF_1 \times CF_2 \times AF_{osed} / BW_{avg}$$

AD_o = Total TEQ_n pg_{TEQ}/g_{sed} x 100 mg_{sed}/day x 1 E-9 mg_{TEQ}/pg_{TEQ} x 1 E-3 g_{sed}/mg_{sed} x 0.5 / 65.95 kg_{BW}

AD_o = Total TEQ_n pg_{TEQ}/g_{sed}x 7.5815 E-13 (mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})

For EF_{Ca}**:**

Hr_{ex} = 8 hrs/day
Da_{ex} = 5 days/wk
Wk_{ex} = 52 wks/yr

EF_{Ca} = $(Hr_{ex}/24)$ x $(Da_{ex}/7)$ x $(Wk_{ex}/52)$
EF_{Ca} = (8 hr /24) x (5da /7) x (52wk /52)
EF_{Ca} = 0.238095

For MRL_{co} = 1.2E-9 $(mg_{TEQ}/kg_{BW}/day)^{-1}$

Based on these input parameters, the theoretical non-cancer risk for oral sediment exposure is:

HQ_{co} = AD_o x EF_{NCa} / MRL_{co}
HQ_{co} = Total TEQ_n pg_{TEQ}/g_{sed} x 7.5815 E-13 $(mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})$ x 0.238095 / 1.2E-9 $(mg_{TEQ}/kg_{BW}/day)^{-1}$
HQ_{co} = Total TEQ_n pg_{TEQ}/g_{sed} x 1.5043E-4 g_{sed}/pg_{TEQ}

Taking the maximum TEQ concentration of 201.9 ng/kg for the Big Star Property, this yields a hazard quotient of:

HQ_{co} = 201.9 pg_{TEQ}/g_{sed} x 1.5043E-4 g_{sed}/pg_{TEQ}
HQ_{co} = 3.037 E-2

Using the rating scale published in the draft PHA, this translates to "No Increased Risk".

<u>Dermal Sediment Exposure</u>

HQ_{cd} = AD_d x EF_{NCa} / MRL_{co}

Where:

HQ_{cd} = Hazard quotient for chronic dermal sediment exposure $(mg_{TEQ}/kg_{BW}/day)$
AD_d = Dermal absorbed dose on exposure days $(mg_{TEQ}/kg_{BW}/day)$
EF_{NCa} = Exposure factor far chosen scenario (unitless)
MRL_{co} = ATSDR's chronic oral Minimal Risk Level for TCDD $(mg_{TEQ}/kg_{BW}/day)$

Dermal Exposure Doses from Sediment
AD_d = Same as for cancer risk

Exposure factor (accounts for durations less than 365 days/yr)
EF_{NCa} = Same as for oral hazard quotient

ATSDR calculated or assumed the following values for these parameters:
For $AD_{d:}$

SL_{sed} = 1 mg_{sed}/cm^2
SA_{con} = 1990.61 cm^2/day
CF_1 = 1 x 10^{-9} mg_{TEQ}/pg_{TEQ}
CF_2 = 1 x10^{-3} g_{sed}/mg_{sed}
AF_{osed} = 0.03

BW_{avg} = 65.95 kg_{BW}

AD_d = Total TEQ_n x SL_{sed} x SA_{con} x CF_1 x CF_2 x AF_{dsed} x BW_{avg}

AD_d = Total TEQ_n pg_{TEQ}/g_{sed} x 1 mg_{sed}/cm^2 x 1990.61 cm^2/day x 1 E-9 mg_{TEQ}/pg_{TEQ} x 1 E-3 g_{sed}/mg_{sed} x 0.03/ 65.95 kg_{BW}

AD_d = Total TEQ_n pg_{TEQ}/g_{sed} x 9.0551 E-13 $(mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})$

For EF_{Ca} = 0.238095
For MRL_{co} = 1.2E-9 $(mg_{TEQ}/kg_{BW}/day)^{-1}$ (same as oral exposure)

Based on these input parameters, the theoretical cancer risk for oral sediment exposure is:

HQ_{cd} = AD_d x EF_{NCa} / MRL_{co}
HQ_{cd} = Total TEQ_n pg_{TEQ}/g_{sed} x 9.0551 E-13 $(mg_{TEQ}*g_{sed})/(pg_{TEQ}*day*kg_{BW})$ x 0.238095 / 1.2E-9 $(mg_{TEQ}/kg_{BW}/day)^{-1}$

HQ_{cd} = Total TEQ_n pg_{TEQ}/g_{sed} x 1.7966E-4 g_{sed}/pg_{TEQ}

Taking the maximum TEQ concentration of 201.9 ng/kg for the Big Star Property, this yields a hazard quotient of 3.75.40E-2

HQ_{cd} = 201.9 pg_{TEQ}/g_{sed} x 1.7966E-4 g_{sed}/pg_{TEQ}
HQ_{cd} = 3.627 E-2

Using the rating scale published in the draft PHA, this translates to “No Increased Risk”. The sum total for both of these exposure routes is 6.664E-2, resulting in a total Hazard Index that is “No Increased Risk”.

Under Alternative 2, if the exposure parameters in the ATSDR PHA are retained, then there should be no risk of adverse health effects from occupational exposure at Big Star Property and therefore no further risk of liability on SJRF’s part. This conclusion, however, is contingent on establishing that TCDD TEQ concentrations do not continue to increase with depth along the east side of the property.

To establish the TEQ concentration at which exposure risk occurs for carcinogenic effect, the parameter of risk was held constant at 1:100,000 (1E-5) and the equations were solved for concentration. For the oral exposure route

Total TEQ_n = $TR_{o,n}$ / 1.0843 E^{-8}
Total TEQ_n = 1E-5 / 1.0843 E^{-8}
Total TEQ_n = 922 ng/kg

For the dermal exposure route
Total TEQ_n = $TR_{d,n}$ / 2.6758 E^{-8}

Total TEQ_n = 1E-5 / 2.6758 E^{-8}
Total TEQ_n = 374 ng/kg

To establish the TEQ concentration at which exposure risk occurs for non-carcinogenic effect, the hazard quotient was held constant at 1and the equations were solved for concentration. For the oral exposure route

Total TEQ_n = HQ_{co} / 1.50426E-4
Total TEQ_n = 1/ 1.50426E-4
Total TEQ_n = 6648 ng/kg

For the dermal exposure route

Total TEQ_n = HQ_{cd} / 9.3544E-4
Total TEQ_n = 1/ 9.3544E-4
Total TEQ_n = 1069 ng/kg

On the basis of these calculations, cancer risk is the controlling factor since the two concentrations for cancer risk is significantly less than that for non-cancer risk. In order to have an exposure risk, the dioxin/furan TEQ concentration would have to achieve the most conservative of the two calculated concentrations for cancer risk which is 374 ng/kg.

In conclusion, known concentrations of dioxins/furans at Big Star Property are below carcinogenic and non-carcinogenic health based criteria for oral and dermal exposure. While characterization of the vertical trend in dioxin concentrations has not been completed for SJTS018, exposure is not expected to occur because deeper samples would occur below the mean high water mark and therefore in groundwater most or all of the time. Hence, TWE does not recommend further characterization for this sample location.

5 SITE RECONNAISSANCE

5.1 OBJECTIVE

The objective of the site reconnaissance was to obtain first hand information identifying potential RECs in connection with the Site. A TWE environmental professional conducted a Phase I ESA Site reconnaissance inspection on May 23, 2011.

5.2 METHODOLOGY AND LIMITING CONDITIONS

A TWE environmental professional traversed the Site. Representative conditions and key features were photographed and documented. The Site reconnaissance photographs are contained in Appendix E of this report.

5.3 GENERAL SITE SETTING

The Site is located in an area that is a mixture of older residential properties, a marina, and a park to the west. To the immediate east is the SJRWP Superfund Site. To the north is the San Jacinto River and on the opposite banks of the river are residential and commercial properties located in the city of Highlands. To the south is Interstate 10 and south of the interstate are shipbuilding facilities, and business associated with shipping and harbor maintenance. It should be noted that the vast majority of residential properties observed were single-family residences.

5.4 OBSERVATIONS

The Site is situated on relatively flat land with improvements. On the property is what appears to be a warehouse building that is in poor condition, a boat slip, metal piling and timbers for the retaining walls that form a vessel docking area, and large concrete blocks with rigging to secure vessels to the dock area. Electrical services are available to the Site, though not connected at the time of Site reconnaissance. Water and sanitary sewer services were also disconnected but are provided via local municipalities.

To the south of the Site is Interstate 10 and south of Interstate 10 are three commercial boat building facilities, offshore maintenance businesses, and harbor maintenance businesses. To the north and west are commercial establishments and generally single-family residences. To the east of the Site, and on the east adjoining property, is the SJRWP Superfund Site. The latter is separated from the Site by a small, bay-like feature.

5.4.1 Structures or Buildings

There are three structures on the Site. One is what appears to be a dilapidated warehouse building located along the northern boundary of the Site. Immediately north of the warehouse building were a boat dock and boat slip.

5.4.2 Potable Water Supply

Drinking water to the area is supplied by local municipalities. No water wells were observed on the Site.

5.4.3 Sewage Disposal Systems and Septic Systems

The general area is served by sanitary sewer lines maintained by local municipalities. No septic systems were observed on the Site.

5.4.4 Pipelines

Seven pipelines markers were observed along the southern boundary of the Site and have an east/west orientation. Two of the pipelines were idle, three transported nitrogen, and two transported finished petroleum products. Base on the signage posted, all seven pipelines were operated by ExxonMobil.

5.4.5 Petroleum Storage Tanks

No underground petroleum storage tanks were observed at the Site or within 500 feet of the Site. On the east adjoining property, above-ground petroleum storage tanks (ASTs) were observed. On the south side of Interstate 10 several ASTs were observed on multiple properties; however, these properties are in excess of 500 feet from the Site.

5.4.6 Waste Water

No waste water is generated at the Site, and waste water generated at the surrounding properties is handled by the local municipalities. Waste water generated at the adjoining superfund site is assumed to be handled in accordance with specifications and established procedures specific to the SJRWP Superfund Site.

5.4.7 Other Conditions of Concern

The following conditions were also checked for but were not observed during Site reconnaissance:

- Hazardous substances and petroleum products in connection with identified uses;
- Hazardous substance and petroleum products containers;
- Odors;
- Pools of non-aqueous liquid;
- Solid waste;
- Pits, ponds, and lagoons (excluding the boat slip);
- Stressed vegetation; and
- PCB-containing equipment.

6 INTERVIEWS

6.1 INTERVIEWS WITH OWNERS, OCCUPANTS, AND LOCAL GOVERNMENT OFFICIALS

Interviews with Site owners, city, or county officials were not warranted. The Site is not occupied, and as a result no occupant interviews were conducted. No other government officials were interviewed during this investigation.

6.2 INTERVIEWS WITH OTHERS

TWE attempted to interview personnel at the San Jacinto River Waste Pit Superfund site, however, security denied TWE access. During Site reconnaissance, TWE noted the presence of

the Glendale Boat Works facility, the Southwest Shipyard facility, and the Kirby facility. These facilities are all were located on Market Street and south of the Site. Due to security procedures TWE was unable to interview personnel at these facilities.

7 FINDINGS, OPINIONS, AND CONCLUSIONS

This study has identified several RECs associated with the Site. Foremost is the SJRWP Superfund Site located east of the Big Star Property and separated from it by the former sand mining operation that is now submerged. A review of data collected by third party contractors for off-site characterization of dioxin impact from the SJRWP site indicates that the Big Star Property was minimally impacted by dioxins except for a small area along the east boundary of the property where concentrations of 201.9 ng/kg were attained at 1-2 ft of depth, somewhat less than the 374 ng/kg health based standard for the Site. Because this sample location is very near or at the mean high water mark, TWE concludes that deeper samples will be below the mean high water mark and, therefore, in groundwater. As a consequence, human exposure is not considered likely and further characterization is not considered necessary.

In addition, the environmental database report identified Otto Marine Enterprises, one of the previous occupants of the Site, as a RCRA facility with eleven (11) violations occurring between 1987 and 2005. Some of the 11 violations appear to be administrative in scope whereas others are more ambiguous. One deals with a land disposal restrictions violation (listed as LDR - General in Atlas report) and two deal with Treatment, Storage and Disposal facility violations (listed as TSD – General and TSD – Closure/Post Closure). Correspondence from TCEQ to Houston International Terminal (HIT) (current property title holder) indicates no current outstanding issues at the property (Appendix I). It is noted that Otto Marine Enterprises was leasing the property from HIT during this period of time. Based on TCEQ's correspondence TWE concludes that these RECs require no further follow-up.

The environmental database cites four releases reported in the ERNS database; ten releases reported in the NRS database, a diesel fuel storage tank reported in the PST database, and two IHW listings at the Site. The PST and IHW listings show no indication that a release occurred and are, therefore, eliminated from further consideration. Insofar as the ERNS and NRS database listings, most target the San Jacinto River as the medium of impact. In three of the releases reported by the ERNS database and one release reported by the NRS database, it is unclear whether the releases occurred in the river itself or occurred on land and found its way into the river. Because none of the four citations mention or imply the latter ,they are assumed to have not impacted the land significantly. Further because the river represents Waters of the State, the releases to water should not incur any liability to SJRF and are concluded to be of no consequence to the property itself.

One citation reported by the NRS database involves releases to the ground from several abandoned storage tanks owned by Otto Marine Enterprises (the RCRA facility noted above). The TCEQ correspondence (discussed above) indicates that these spills were addressed to the satisfaction of the agency. Hence, TWE concludes that they also can be excluded from consideration.

The Site reconnaissance identified several RECs as well. These RECs include the seven

pipelines observed along the southern boundary of the Site, the valve station located near the southwest corner of the Site, and confirmation of the SJRWP Superfund Site. The valve station along with the two pipelines transporting finished petroleum products and the two inactive lines are retained as RECs on the basis that there is no data clearing them of releases.

While shipbuilding, shipping maintenance facilities, and harbor maintenance facilities were observed to the south of Interstate 10, these facilities do not pose a significant threat to the Site due to distance and the topography of the area. Also, the REC involving the release of 3,000-gallons of benzene south of the Site in 1980 is not considered a risk to the Site.

8 RECOMMENDATIONS

TWE recommends the following actions as part of a Phase II investigation:

- A limited soil investigation of the Exxon pipelines to assess possible subsurface releases; and,
- A limited soil investigation of the valve station to assess possible surface spills.

9 DEVIATIONS

Suggested ASTM E1527-05 report headings which have been deleted from this report due to their not being investigated or relevant to this study include:

- Significant Assumptions;
- Special Terms and Conditions;
- Specialized Knowledge;
- Valuation Reduction for Environmental Issues; and
- References (all sources cited are noted in the relevant section of text).

10 LIMITATIONS AND EXCEPTIONS

10.1 USER RELIANCE

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions, recommendations, and conclusions contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations,

time frames, and project parameters indicated. Environmental conditions may exist at the property that cannot be identified by visual observation. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

10.2 LIMITATIONS OF THE PHASE I ESA

Pursuant to *ASTM E-1527-05*, the following were excluded from the scope-of-work for the Phase I ESA:

- Radon;
- Regulatory compliance;
- Industrial hygiene;
- Asbestos surveys;
- Wetlands.
- Lead in drinking water;
- Lead-based paint surveys;
- Ecological resources;
- Groundwater testing;

11 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We, the undersigned, declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professionals* as defined in 312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR 312.

TWE Project Number 11.12.014

May 26, 2011

STATE OF TEXAS
MARK A BROTHERTON
05-20-11
GEOLOGY
2035
LICENSED
PROFESSIONAL GEOSCIENTIST

Mark Brotherton, P.G.
Senior Project Manager
Environmental Services Division

Paul R. Wild
Vice President
Environmental Services Division

12 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The resumes of the environmental professionals who prepared this report are presented below.

MARK BROTHERTON, P.G.
SR. PROJECT MANAGER
ENVIRONMENTAL SERVICES DIVISION

SPECIALIZATION

M.S. Geology; Registered Texas Geoscience Professional and a Certified Project Management Professional. Mr. Brotherton is a geologist with 24 years of experience in the environmental consulting business. His expertise ranges from design and implementation of site investigations and groundwater monitoring programs to remediation of contaminated soil. Clients include Department of Defense as well as private sector and local municipalities. An important component of his project experience is the management of waste streams ranging from investigation derived waste to spill response, SWMU removal waste and remediation waste. The latter has comprised petroleum storage tank releases, as well as pre- and post-RCRA releases of volatile organics, semivolatile organics, pesticides, herbicides, PCBs and metals. Mr. Brotherton is knowledgeable in characterizing and classifying wastes according to federal and state criteria and has managed wastes of various media including soil, groundwater, surface water, pond sludge and demolition debris. He has acted on behalf of the client in profiling, manifesting and directing the transport and disposal of hazardous and nonhazardous waste.

PROFESSIONAL HISTORY

Tolunay-Wong Engineers, Houston, TX, 2008 to Present, Environmental Services
ECC, Houston, Texas, 2004 – 2008, Sr. Geologist/Project Manager
Independent Geologist, 2001 - 2004
TRC Environmental Corporation, 2000 – 2001, Houston, Texas, Sr. Geologist
Radian International LLC, 1986 – 1999, Houston, Texas, Sr. Geologist
Environmental Research & Technologysting, 1984 – 1986, Houston, Texas, Geologist

EDUCATION, REGISTRATIONS AND CERTIFICATIONS

Project Management Profession Certification, 2008
Practical Loss Control Leadership Certification, 2006
MS, Geology, Texas A&M University, 1982
BS, Geology, Baylor University, 1978
40-hour HAZWOPER Training

LICENSES AND CERTIFICATIONS

Project Management Professional, (#524528)
Texas Professional Geoscientist (PG 2035)
LPST Project Manager (No. PM0000082)
American Institute of Professional Geologists (AIPG #10636)

PAUL R. WILD
VICE PRESIDENT
ENVIRONMENTAL SERVICES DIVISION

SPECIALIZATION

Conducts technical reviews of environmental management systems, and directs environmental compliance audits, risk assessments, environmental site assessments, wetlands delineations and Corps permitting, and asbestos surveys. Manages RCRA Facility Investigations and Corrective Measures Studies. Manages all phases of underground storage tank release evaluations from initial investigation to remediation. Conducts Environmental Assessments under the National Environmental Policy Act. Evaluates analytical testing data and oversees contract laboratory quality assurance, including on-site auditing. Supervises drilling and sampling operations at hazardous waste sites and provides assessment of soil and groundwater contamination. Conducts chemical literature research and assesses waste treatment methods. Evaluates applicable or relevant and appropriate requirements (ARARs) in relation to remedial actions and air/water/waste permitting. Develops health and safety plans and monitors health and safety plan compliance. Evaluates census tract data, property ownership records, aerial photography, house-to-house survey data, and other publicly available data, including interviews with regulatory and governmental agency personnel, to assess possible or probable social and economic impacts to communities from construction and remediation projects.

PROFESSIONAL HISTORY

Tolunay-Wong Engineers, Inc., Houston, Texas, 2002 to Present
Washington Group International, Houston, Texas, 1985 - 2002, Manager of Environmental Services
Resource Engineering, Inc. (ENSR), Houston, Texas, 1985, Staff Chemist
McBride-Ratcliff and Associates, Inc., Houston, Texas, 1984 - 1985, Field Technician

EDUCATION

B.S. Chemistry (Zoology minor): Marshall University, 1983

CERTIFICATION

OSHA Certified for Hazardous Waste Site Work (OSHA 29 CFR 1910.120)
OSHA 29 CFR 1910.120 Supervisor Training
Asbestos Hazard Emergency Response Act (AHERA) building inspector and management planner
Illinois Licensed Asbestos Inspector #100-7145
TCEQ Corrective Action Project Manager Reg. #CAPM00385

AFFILIATIONS

American Chemical Society

PUBLICATIONS

"A Contaminant-Resistant Slurry Trench," W. R. Tobin, co-author, presented at the First Annual Southern Regional Ground Water Conference, San Antonio, Texas, September 1985, pp. 193-208.
"Attapulgite: A Clay Liner Solution?" W. R. Tobin, co-author, Civil Engineering, Vol. 56, No. 2, February 1986, pp. 56-58.
"The Environmental Site Assessment as a Pre-Investment Security," presented at the Texas Section, American Society of Civil Engineers Spring Meeting, Dallas, Texas, April 1987.

FIGURE 1: SITE MAP

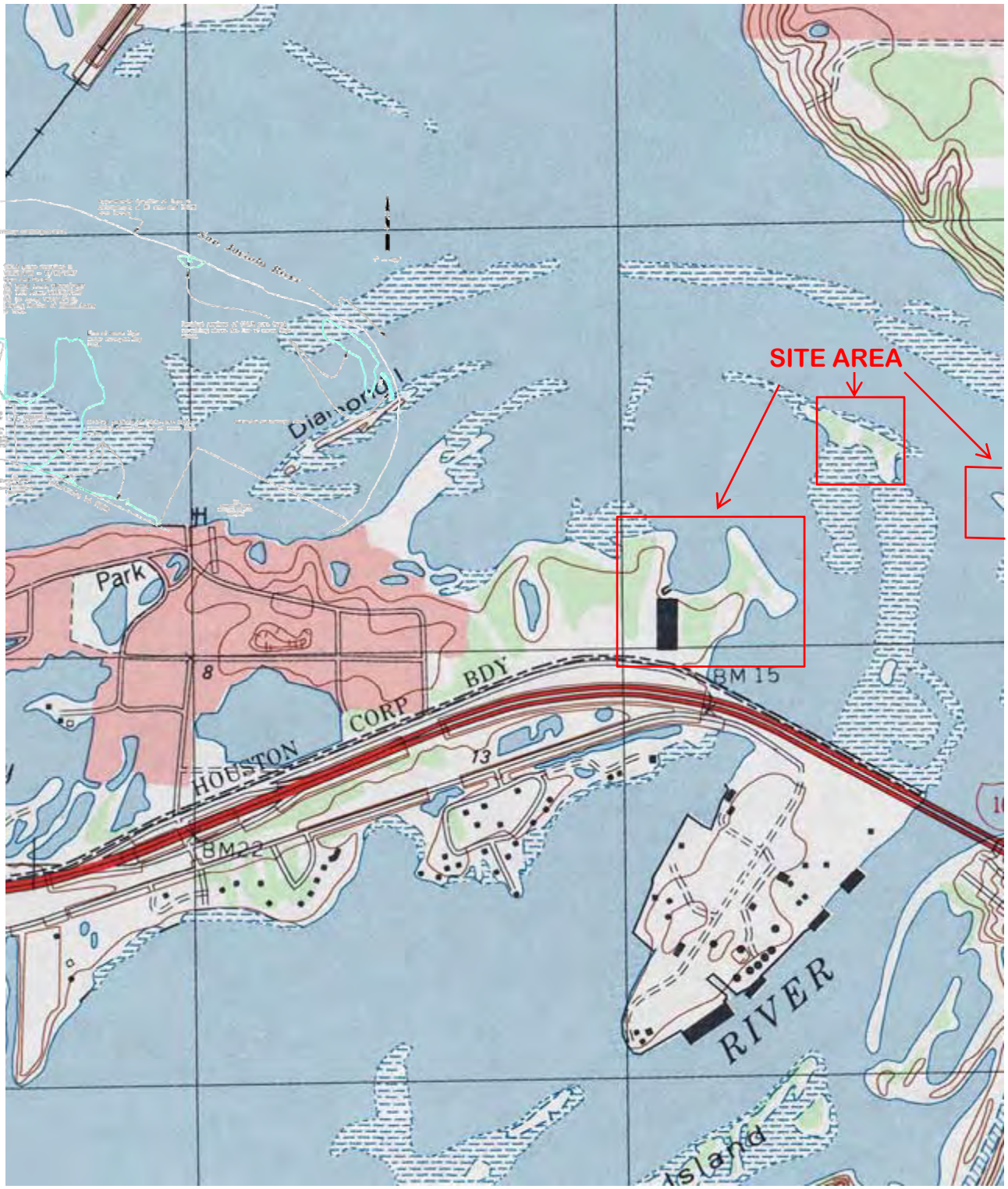
SITE MAP
Source: Google Maps

Scale: 1" ≈ 1,435'

N

Project: Phase I ESA Big Star Property 18001 I-10 Channelview, Harris County, Texas	**Tolunay-Wong Engineers, Inc.** **Houston, Texas**	Project No.: 11.12.014 Client: San Jacinto River Fleet, LLC Channelview, Texas

FIGURE 2: TOPOGRAPHIC MAP



1995 TOPOGRAPHIC MAP

Source: United States Geological Survey (USGS) 7.5 Minute Series
Highlands Quadrangle, Harris County, Texas

Scale: 1" ≈ 1,160'

N

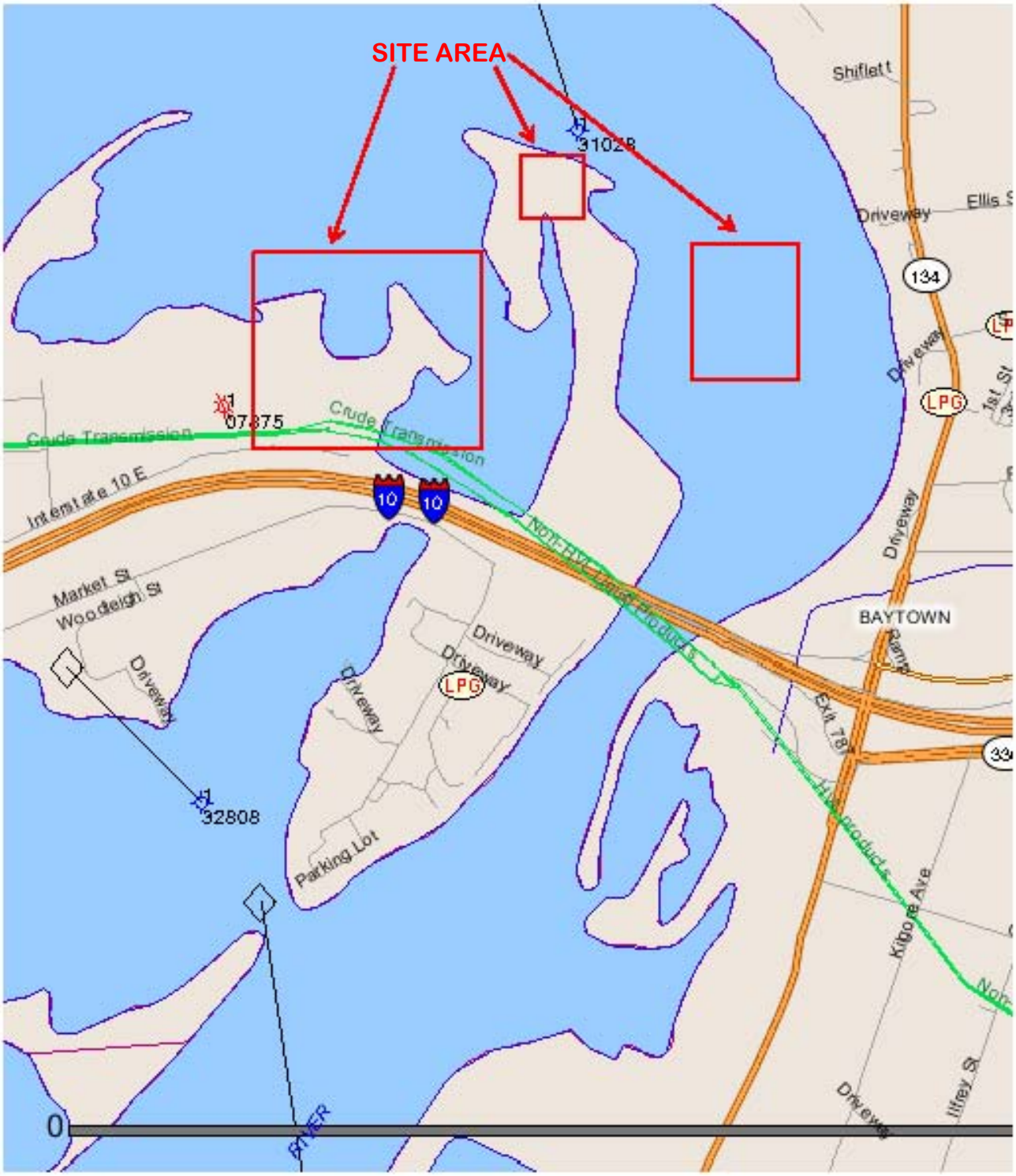
Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas

FIGURE 3: RRC PUBLIC GIS MAP



RRC PUBLIC GIS MAP
Source: RRC.State.TX.US
Harris County, Texas

Scale: 1" ≈ XX'

N

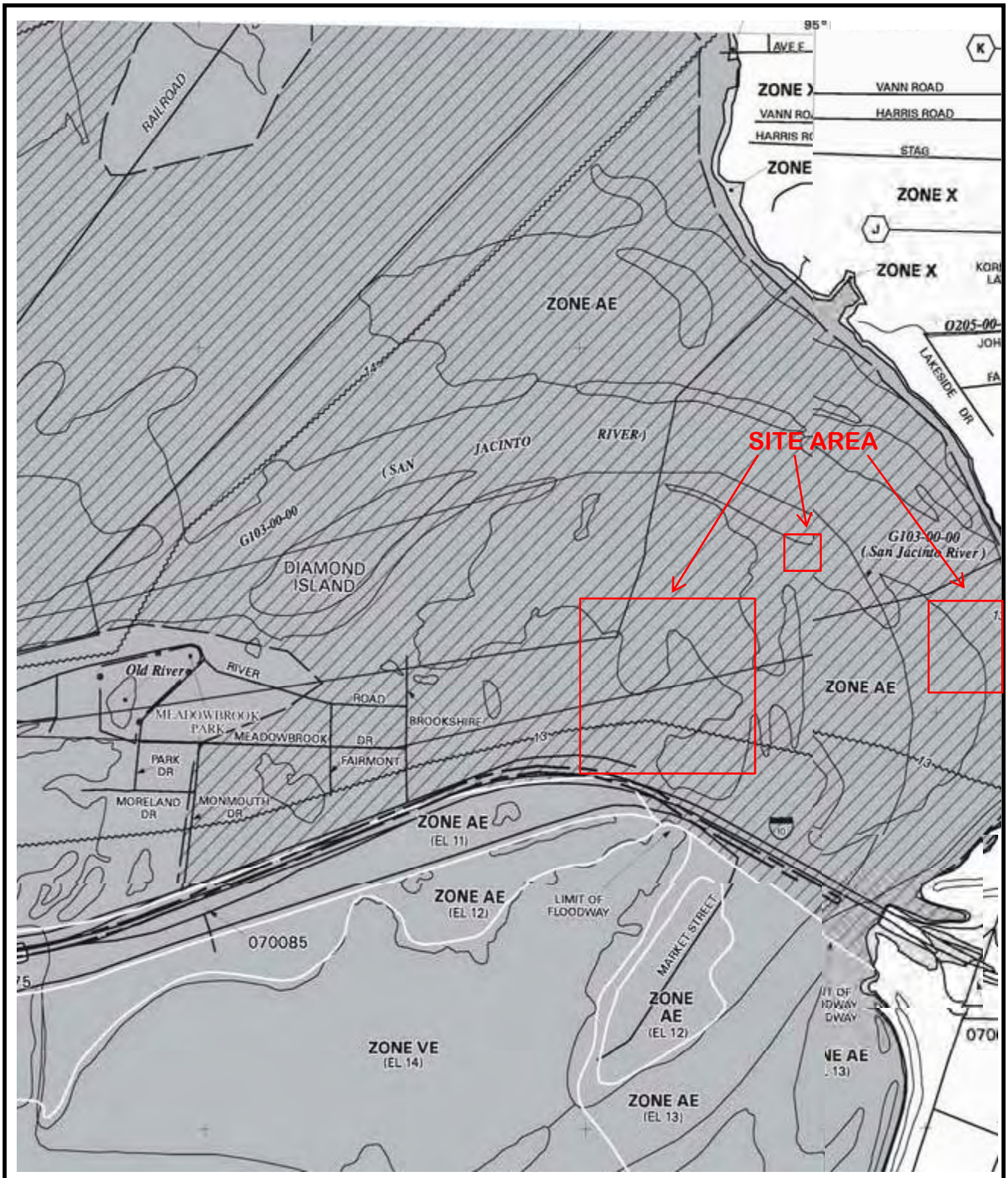
Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas

FIGURE 4: FEMA FIRM MAP



FEMA FIRM MAP

Source: FEMA Community Panels Nos. 4801C0740 L, & 4801C0740 L, June 9, 2006, via efloodmap.com

Scale: 1" ≈ 1,235'

N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas

Figure 5: Soil and Sediment Sample Locations
Figure 6: Horizontal Characterization of Soil Dioxins
Figure 7: Vertical Characterization of Soil Dioxins

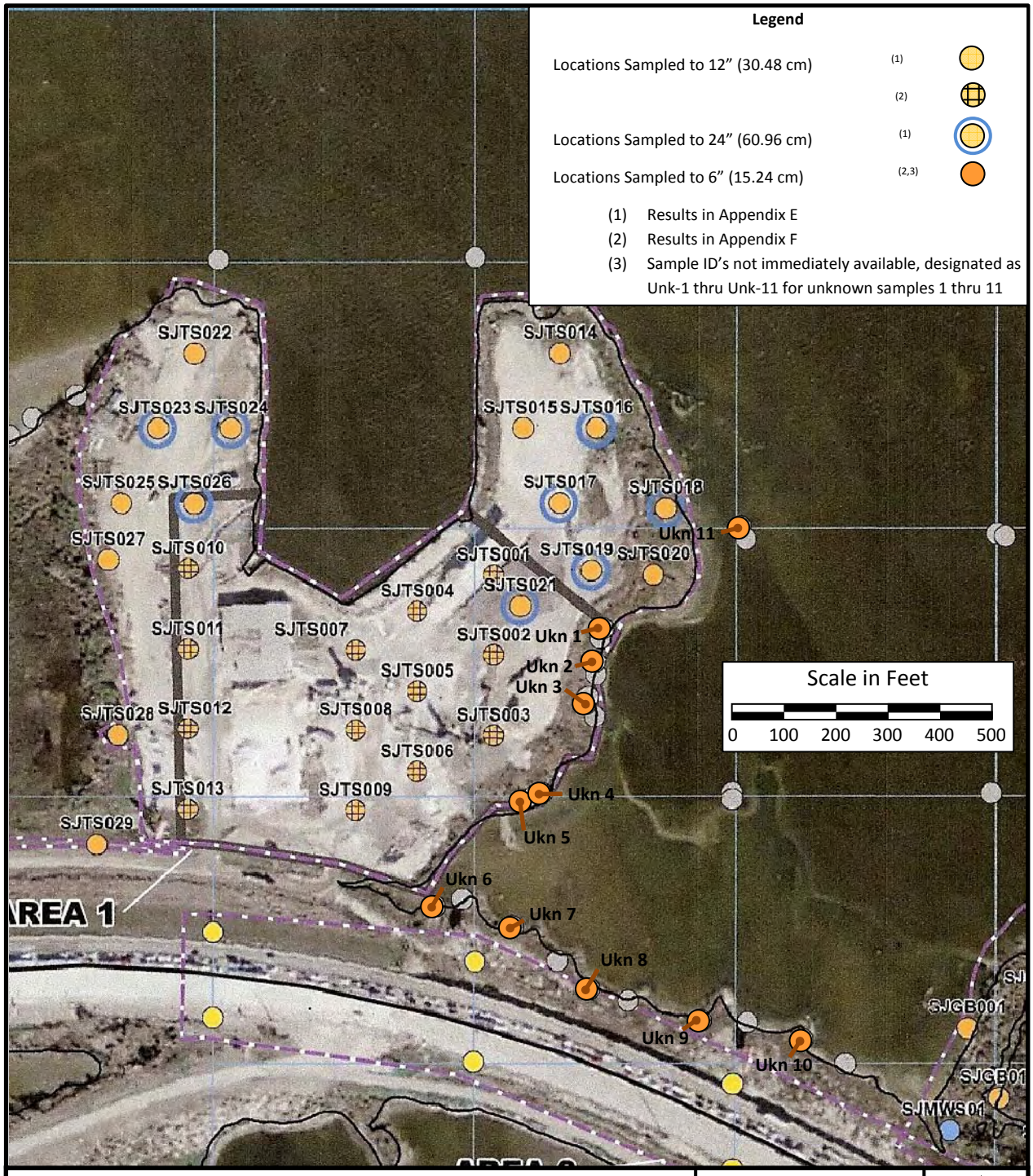


Figure 5
Soil and Sediment Sample Locations

Scale
As Noted

Project:
Environmental Services For
Big Star Property
Harris County, Texas

Tolunay-Wong Engineers, Inc.

Project No.: 11.12.014

Client:
San Jacinto River Fleet, LLC
Channelview, Texas

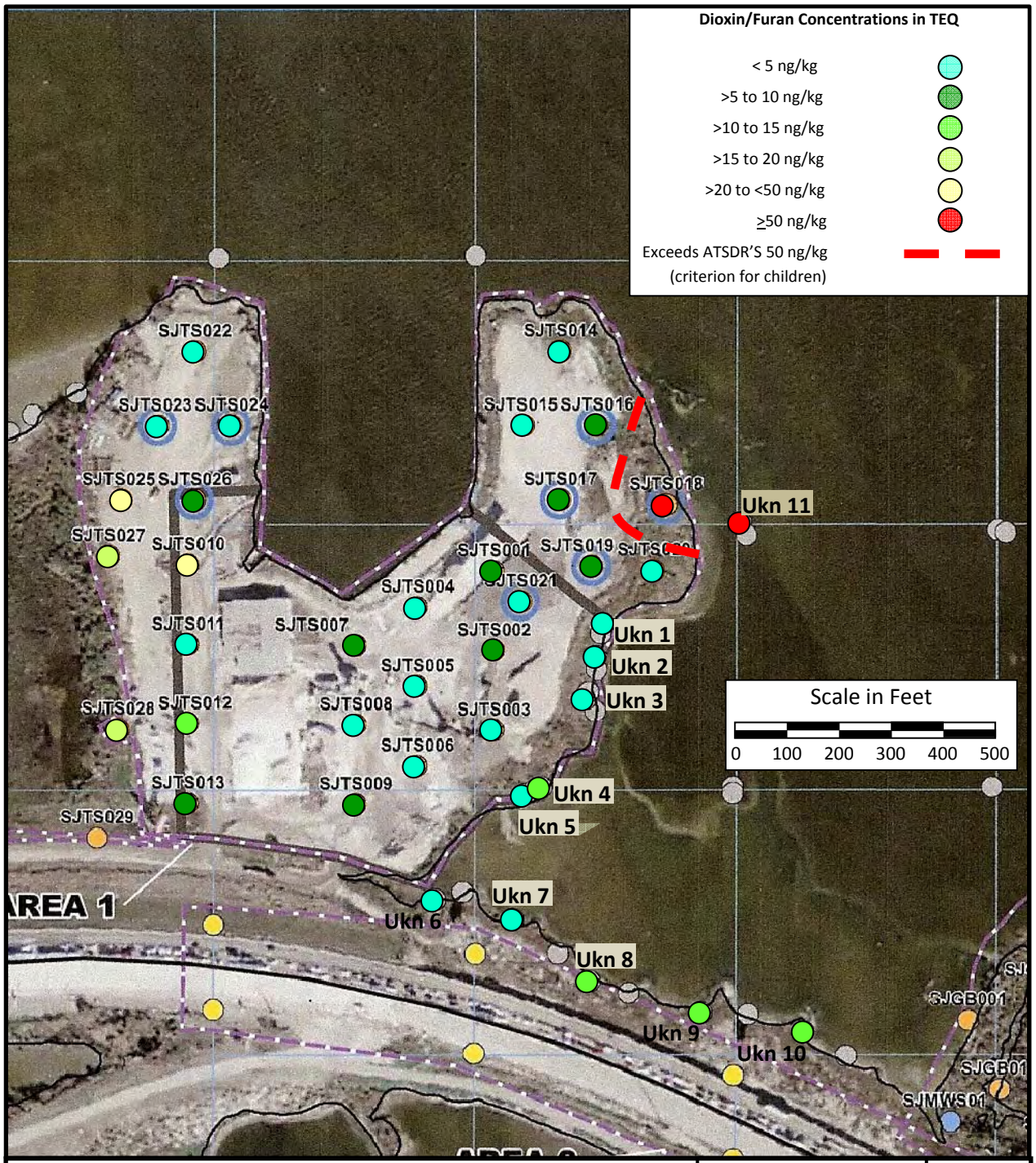


Figure 6 **Horizontal Characterization of Soil Dioxins**		Scale As Noted
Project: Environmental Services For Big Star Property Harris County, Texas	Tolunay-Wong Engineers, Inc.	Project No.: 11.12.014 Client: San Jacinto River Fleet, LLC Channelview, Texas

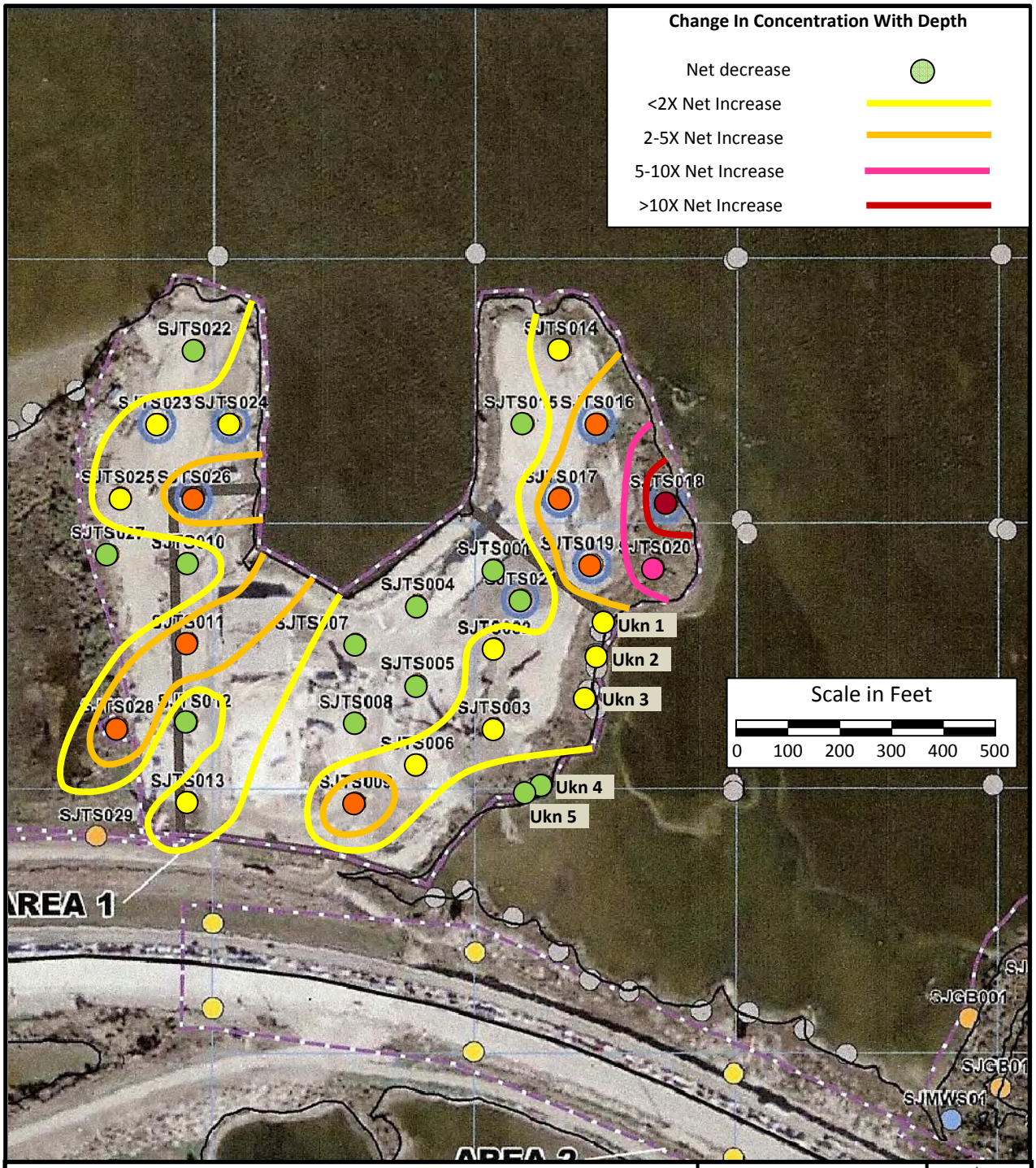


Figure 7

Vertical Characterization of Soil Dioxins

Scale
As Noted

Project:
Environmental Services For
Big Star Property
Harris County, Texas

Tolunay-Wong Engineers, Inc.

Project No.: 11.12.014

Client:
San Jacinto River Fleet, LLC
Channelview, Texas

Table 2: Summary of Soil analytical Results for Dioxins

Table 2
Summary of Soil Analytical Data for Dioxins and Furans
Big Star Property
Channelview, Texas

Congener Analyte	Sample ID (1)	SJTS014 15.24	SJTS014 30.48	SJTS015 15.24	SJTS015 24.384	SJTS016 15.24	SJTS016 30.48	SJTS016 57.912	SJTS017 15.24	SJTS017 30.48	SJTS017 60.96
	Depth	0-6"	6-12"	0-6"	6-12"	0-6"	6-12"	12-24"	0-6"	6-12"	12-24"
	TRRP TEF (1)	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg
2378TetDioxin	1	0.0317	0.458	0.173	0.232	0.0315	0.0279	2.07	0.283	0.0266	3.48
12378PenDioxin	1	0.0316	0.0379	0.034	0.186	0.061	0.0411	0.262	0.172	0.0278	0.0413
123478HexDioxin	0.1	0.476	0.404	0.127	0.129	0.352	0.208	0.351	0.396	0.118	0.0266
123678HexDioxin	0.1	1.79	2.46	0.666	0.629	0.872	0.489	1.84	1.14	0.488	0.375
123789HexDioxin	0.1	1.18	1.03	0.636	0.512	1.06	0.471	0.873	0.854	0.237	0.291
1234678HepDioxin	0.01	68.4	86.4	15	18.8	62.5	24.5	61.9	54.3	17.7	12.4
OctClDiBzDioxin	0.0001	3330	2170	639	1020	7010	3980	2730	2690	1360	650
2378TetFuran	0.1	0.358	1.98	5.8	3.62	0.219	0.0298	8	0.96	0.33	12.4
12378PenFuran	0.05	0.0371	0.0426	0.393	0.59	0.0242	0.0254	0.635	0.114	0.019	0.374
23478PenFuran	0.5	0.0366	0.332	2.49	1.62	0.157	0.0257	0.5	0.13	0.0193	0.305
123478HexFuran	0.1	1.18	0.874	2.08	1.26	0.384	0.261	2.45	0.441	0.188	0.708
123678HexFuran	0.1	0.422	0.184	1.59	0.815	0.149	0.108	0.816	0.164	0.101	0.184
123789HexFuran	0.1	0.0715	0.229	0.0735	0.0446	0.0192	0.022	0.0886	0.0387	0.0208	0.0284
234678HexFuran	0.1	0.608	0.987	3.68	1.68	0.119	0.0743	0.659	0.199	0.0707	0.0279
1234678HepFuran	0.01	7.68	10.7	3.03	2.23	2.65	1.12	8.23	3.96	1.32	0.917
1234789HepFuran	0.01	0.837	0.572	0.223	0.291	0.218	0.0982	0.525	0.273	0.0393	0.0452
OctClDiBzFuran	0.0001	23.8	24.2	4.44	5.6	7.34	2.59	25.3	16.2	4.03	2.2
TEQ (ng/kg)		**1.79678**	**2.54474**	**2.240124**	**1.97873**	**1.785284**	**0.904736**	**5.16434**	**1.79372**	**0.547211**	**5.326482**

(1) Sample ID designates end depth in centimeters
(2) Texas Risk Reduction Program (TRRP) Toxicity Equivalent Factors (TEF) published in 30 TAC 350.76 (e).

Table 2
Summary of Soil Analytical Data for Dioxins and Furans
Big Star Property
Channelview, Texas

Congener Analyte	Sample ID (1)	SJTS018 15.24	SJTS018 30.48	SJTS018 60.96	SJTS019 15.24	SJTS019 30.48	SJTS019 60.96	SJTS020 15.24	SJTS020 30.48	SJTS021 15.24	SJTS021 30.48
	Depth	**0-6"**	**6-12"**	**12-24"**	**0-6"**	**6-12"**	**12-24"**	**0-6"**	**6-12"**	**0-6"**	**6-12"**
	TRRP TEF (1)	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg
2378TetDioxin	1	6.58	24.2	144	0.363	0.278	3.85	0.404	2.2	2.91	2.44
12378PenDioxin	1	0.0346	0.242	0.975	0.124	0.361	0.0204	0.0261	0.0258	0.0248	0.076
123478HexDioxin	0.1	0.0202	0.032	0.0286	0.328	0.725	0.174	0.0172	0.0226	0.0249	0.0775
123678HexDioxin	0.1	0.0264	0.04	0.179	0.667	1.39	0.661	0.0214	0.027	0.035	0.106
123789HexDioxin	0.1	0.169	0.034	0.28	0.824	2.1	0.35	0.0182	0.0234	0.253	0.086
1234678HepDioxin	0.01	3.43	1.33	4.93	37.7	140	21.5	0.829	1.39	5.52	17.7
OctClDiBzDioxin	0.0001	93.5	33.5	111	4180	23400	685	17.1	32.5	162	345
2378TetFuran	0.1	26.8	84	490	0.84	0.904	12.8	1.1	11.7	10.7	10.3
12378PenFuran	0.05	0.665	1.7	10.8	0.0297	0.029	0.398	0.025	0.154	0.35	0.363
23478PenFuran	0.5	0.408	1.23	7.44	0.127	0.0278	0.279	0.0222	0.131	0.297	0.0635
123478HexFuran	0.1	0.692	2.47	15.6	0.284	0.283	0.785	0.071	0.111	0.647	0.675
123678HexFuran	0.1	0.183	0.597	3.54	0.106	0.134	0.214	0.016	0.0162	0.208	0.194
123789HexFuran	0.1	0.02	0.023	0.175	0.026	0.0651	0.0236	0.0194	0.0205	0.0149	0.1
234678HexFuran	0.1	0.0194	0.0217	0.645	0.0852	0.25	0.101	0.018	0.0192	0.0787	0.097
1234678HepFuran	0.01	0.345	0.507	3.81	1.68	2.22	1.99	0.0805	0.118	0.909	1.41
1234789HepFuran	0.01	0.0696	0.228	1.34	0.144	0.201	0.226	0.0226	0.0225	0.18	0.222
OctClDiBzFuran	0.0001	0.93	0.518	2.16	5.77	10.8	6.71	0.0336	0.229	2.8	6.88
TEQ (ng/kg)		**9.808389**	**34.0993218**	**201.903876**	**1.638037**	**5.00529**	**5.900541**	**0.58286436**	**3.5219179**	**4.40337**	**4.092733**

(1) Sample ID designates end depth in centimeters
(2) Texas Risk Reduction Program (TRRP) Toxicity Equivalent Factors (TEF) published in 30 TAC 350.76 (e).

Table 2
Summary of Soil Analytical Data for Dioxins and Furans
Big Star Property
Channelview, Texas

Congener Analyte	Sample ID [1]	SJTS021 60.96	SJTS022 15.24	SJTS022 30.48	SJTS023 15.24	SJTS023 30.48	SJTS023 57.912	SJTS024 15.24	SJTS024 30.48	SJTS024 60.96	SJTS025 15.24
	Depth	**12-24"**	**0-6"**	**6-12"**	**0-6"**	**6-12"**	**12-24"**	**0-6"**	**6-12"**	**12-24"**	**0-6"**
	TRRP TEF [1]	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg
2378TetDioxin	1	1.79	0.093	0.077	0.0665	0.0234	0.0193	0.031	0.0448	0.042	0.785
12378PenDioxin	1	0.0745	0.346	0.212	0.328	0.372	0.308	0.0347	0.0359	0.0326	1.36
123478HexDioxin	0.1	0.0595	0.918	0.53	1.22	0.602	0.645	0.395	0.285	0.353	2.21
123678HexDioxin	0.1	0.0815	6.59	3.73	5.05	4.78	4.41	0.776	0.472	0.541	10.8
123789HexDioxin	0.1	0.584	2.75	1.64	3.01	2.65	2.65	0.79	0.781	0.93	7.57
1234678HepDioxin	0.01	12.6	194	122	190	159	210	24.6	23.9	34.6	297
OctClDiBzDioxin	0.0001	254	3480	1990	4030	4750	8040	1350	2290	4290	3430
2378TetFuran	0.1	7.1	0.0985	0.0955	0.385	0.74	0.334	0.292	0.0498	0.27	24.1
12378PenFuran	0.05	0.106	0.075	0.058	0.0625	0.319	0.127	0.0265	0.0297	0.0306	6.05
23478PenFuran	0.5	0.677	0.081	0.059	0.068	0.437	0.275	0.0306	0.0306	0.0314	7.68
123478HexFuran	0.1	0.603	3.05	1.45	1.48	1.27	1.1	0.031	0.0357	0.0343	29.2
123678HexFuran	0.1	0.581	1.05	0.506	0.689	0.633	0.482	0.0307	0.035	0.0345	11.2
123789HexFuran	0.1	0.154	0.173	0.119	0.19	0.069	0.0399	0.03	0.0398	0.0386	0.868
234678HexFuran	0.1	0.979	1.92	1.08	1.38	0.653	0.397	0.0346	0.0397	0.038	5.2
1234678HepFuran	0.01	1.27	31.1	19	20.4	16.9	16.3	1.18	0.618	0.673	93.2
1234789HepFuran	0.01	0.168	2.65	2.06	1.69	1.07	1	0.0486	0.058	0.068	19.8
OctClDiBzFuran	0.0001	3.71	111	108	74.4	76	104	4.19	1.73	1.62	700
TEQ (ng/kg)		**3.131701**	**4.7721**	**2.8764**	**4.30089**	**3.96875**	**4.49774**	**0.712115**	**0.745813**	**1.097982**	**19.1818**

(1) Sample ID designates end depth in centimeters
(2) Texas Risk Reduction Program (TRRP) Toxicity Equivalent Factors (TEF) published in 30 TAC 350.76 (e).

Table 2
Summary of Soil Analytical Data for Dioxins and Furans
Big Star Property
Channelview, Texas

Congener Analyte	Sample ID (1)	SJTS025 30.48	SJTS026 15.24	SJTS026 30.48	SJTS026 60.96	SJTS027 15.24	SJTS027 30.48	SJTS028 15.24	SJTS028 30.48
	Depth	6-12"	0-6"	6-12"	12-24"	0-6"	6-12"	0-6"	6-12"
	TRRP TEF (1)	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg	ng/kg
2378TetDioxin	1	1.23	0.175	0.268	0.574	0.823	0.684	0.198	0.405
12378PenDioxin	1	2.58	0.28	0.295	1.05	1.96	1.53	0.614	1.21
123478HexDioxin	0.1	2.04	0.545	0.563	1.22	2.5	1.96	1.26	1.9
123678HexDioxin	0.1	12.8	2.96	3.7	7.38	11.5	9.52	5.18	16.2
123789HexDioxin	0.1	8.34	1.7	1.71	4.94	7.92	6.9	3.99	9.5
1234678HepDioxin	0.01	413	93	142	222	233	238	187	701
OctClDiBzDioxin	0.0001	4140	3310	2320	3920	3680	3860	6420	14300
2378TetFuran	0.1	44.9	0.487	1.18	2.46	12.5	9.5	2.91	9.7
12378PenFuran	0.05	6.82	0.223	0.0795	0.89	4.91	4.16	0.821	2.69
23478PenFuran	0.5	6.24	0.42	0.445	1.29	6.17	5.16	1.03	6.02
123478HexFuran	0.1	16.2	1.89	2.28	3.6	26.5	21.5	4.49	14.6
123678HexFuran	0.1	6.12	0.671	0.85	1.96	9.65	8.25	1	5.16
123789HexFuran	0.1	0.581	0.074	0.215	0.0711	0.715	0.522	0.0708	0.181
234678HexFuran	0.1	3.6	0.307	1.17	2.17	4.42	6.69	1.19	6.39
1234678HepFuran	0.01	44.2	13.5	17.2	31.6	76.2	69.1	23.1	45.8
1234789HepFuran	0.01	9.72	1.53	1.37	2.4	16.3	12.9	1.14	5
OctClDiBzFuran	0.0001	392	52.9	77.4	160	543	457	142	220
TEQ (ng/kg)		**22.1125**	**2.86749**	**3.63724**	**7.48161**	**16.7943**	**14.6679**	**6.05168**	**18.5941**

(1) Sample ID designates end depth in centimeters
(2) Texas Risk Reduction Program (TRRP) Toxicity Equivalent Factors (TEF) published in 30 TAC 350.76 (e).

APPENDIX A: HISTORICAL CHAIN-OF-TITLE

RESIDENTIAL SERVICES, LP.

520 Post Oak Blvd., # 120
Houston, Texas 77027
Ph: 713-223-1333
Fx: 713-223-1334

HISTORICAL CHAIN OF TITLE

For Use With Phase I ESA

Requested by:	TOLUNAY-WONG ENGINEERS, INC.**	RS #:	20110513.1
Attention:	Mark Brotherton	Effective Date:	005/12/2011
Reference #:	11.12.014	Report Date:	05/18/2011

SUBJECT TRACT: Tract 1: 145 acres of land (per HCAD) out of the J.T. Harrell Survey, A-330, Harris County, Texas. (HCAD # 042-235-000-0085)

Tract 2: 7.87 acres of land (per HCAD) out of the J.T. Harrell Survey, A-330, Harris County, Texas. (HCAD # 042-235-000-0086)

Tract 3: 0.74 acres of land (per HCAD) out of the J.T. Harrell Survey, A-330, Harris County, Texas. (HCAD # 042-235-000-0158)

PHYSICAL ADDRESS: N/A

OWNER OF RECORD: Big Star Barge and Boat Company, Inc.

Chain for Tract 1:

DATE: 6/30/2004
INSTRUMENT: Special Warranty Deed
GRANTEE: **Big Star Barge and Boat Company, Inc.**
GRANTOR: Houston International Terminal, Inc.
REFERENCE: 20060132493
COMMENTS: All subject tracts; Note: A conveyance into the grantor herein was not found.

DATE: 8/27/1980
INSTRUMENT: Warranty Deed
GRANTEE: **Big Star & Boat Company, Inc.**
GRANTOR: M. Michael Gordon and Frank F. Spata
REFERENCE: G-654979
COMMENTS: Subject Tract 1, etal.

DATE: 11/15/1943
INSTRUMENT: Deed
GRANTEE: **M. Michael Gordon and Frank F. Spata**
GRANTOR: Edward Shields and wife
REFERENCE: 1297/16
COMMENTS: Subject tract 1, etal.

**This report is subject to all LIMITATIONS AND DISCLAIMERS as stated on the final page of this report.

Chain for Tract 2:

DATE: 6/30/2004
INSTRUMENT: Special Warranty Deed
GRANTEE: **Big Star Barge and Boat Company, Inc.**
GRANTOR: Houston International Terminal, Inc.
REFERENCE: 20060132493
COMMENTS: All subject tracts; Note: A conveyance into the grantor herein was not found.

DATE: 7/22/1976
INSTRUMENT: Warranty Deed
GRANTEE: **Big Star Barge and Boat Company, Inc.**
GRANTOR: Triumph Industries, Inc.
REFERENCE: E-846564
COMMENTS: 7.87 acres

DATE: 10/15/1973
INSTRUMENT: Warranty Deed
GRANTEE: **Triumph Industries, Inc.**
GRANTOR: Marina Realty Corp.
REFERENCE: M-970754
COMMENTS: 7.87 acres

DATE: 12/30/1959
INSTRUMENT: General Warranty Deed
GRANTEE: **Marina Realty Corp.**
GRANTOR: M. Michael Gordon and Frank Spata
REFERENCE: 3900/246
COMMENTS: Subject Tract

DATE: 11/20/1954
INSTRUMENT: Deed
GRANTEE: **M. Michael Gordon and Frank F. Spata**
GRANTOR: John M. Fillipone
REFERENCE: 2858/216
COMMENTS: 48.2 acres

DATE: 8/30/1954
INSTRUMENT: Deed
GRANTEE: **John M. Fillipone**
GRANTOR: M. Michael Gordon and Frank F. Spata
REFERENCE: 2817/117
COMMENTS: 48.2 acres

DATE: 9/16/1942
INSTRUMENT: Deed
GRANTEE: **M. Michael Gordon and Frank F. Spata**
GRANTOR: Edward Shields
REFERENCE: 1271/607
COMMENTS: 48.2 acres, et al

DATE: 9/5/1942
INSTRUMENT: Deed
GRANTEE: **Edward Shields**
GRANTOR: San Jacinto River Estates, Inc.
REFERENCE: 1260/452
COMMENTS: 48.2 acres, et al

**This report is subject to all LIMITATIONS AND DISCLAIMERS as stated on the final page of this report.

DATE: 4/6/1940
INSTRUMENT: Deed
GRANTEE: **San Jacinto River Estates, Inc.**
GRANTOR: Vivian J. Mills et vir Albert Mills
REFERENCE: 1160/546
COMMENTS: 48.2 acres, et al

DATE: 9/19/1939
INSTRUMENT: Deed
GRANTEE: **Albert G. Mills**
GRANTOR: E.A. Green
REFERENCE: 1127/764
COMMENTS: 48.2 acres, et al

Chain for tract 3:

DATE: 6/30/2004
INSTRUMENT: Special Warranty Deed
GRANTEE: **Big Star Barge and Boat Company, Inc.**
GRANTOR: Houston International Terminal, Inc.
REFERENCE: 20060132493
COMMENTS: All subject tracts; Note: A conveyance into the grantor herein was not found.

DATE: 7/23/1998
INSTRUMENT: Warranty Deed
GRANTEE: **Big Star Barge and Boat Company, Inc.**
GRANTOR: Parker Brothers & Company, Inc.
REFERENCE: T-163882
COMMENTS: 0.74 acres

DATE: 5/28/1956
INSTRUMENT: Warranty Deed
GRANTEE: **Parker Bros. & Co., Inc.**
GRANTOR: W.R. Parker, G.W. Parker, B.K. Parker & R.H Parker
REFERENCE: 3161/366
COMMENTS: Conveyance of an undivided ½ interest in 80 acres.

DATE: 9/3/1954
INSTRUMENT: Warranty Deed
GRANTEE: **Parker Bros. & Co., Inc.**
GRANTOR: Edward Shields
REFERENCE: 2821/313
COMMENTS: Conveyance of an undivided ½ interest in 80 acres.

DATE: 9/3/1954
INSTRUMENT: Warranty Deed
GRANTEE: **W.R. Parker, G.W. Parker, B.K. Parker & R.H Parker**
GRANTOR: Byron G. McCollough
REFERENCE: 2821/315
COMMENTS: Conveyance of an undivided ½ interest in 80 acres.

DATE: 11/18/1952
INSTRUMENT: Warranty Deed
GRANTEE: **Edward Shields and Byron G. McCollough**
GRANTOR: Georgia Mae Farmer
REFERENCE: 2541/315
COMMENTS: 80 acres

DATE: 4/19/1929
INSTRUMENT: Warranty Deed
GRANTEE: **Georgia Mae Farmer**
GRANTOR: Tyrell & Garth Investment Co.
REFERENCE: 800/154
COMMENTS: 80 acres

**This report is subject to all LIMITATIONS AND DISCLAIMERS as stated on the final page of this report.

EASEMENTS, RIGHT OF WAYS, SURFACE LEASES, ENVIRONMENTAL LIENS AND ENVIRONMENTAL ACTIVITY USE AND LIMITATIONS AFFECTING THE SURFACE ESTATE OF THE SUBJECT TRACT:

DATE: 5/18/1998
INSTRUMENT: Easement
GRANTEE: **Houston Lighting & Power Co.**
GRANTOR: Big Star Barge and Barge Company, Inc.
REFERENCE: T-023761
COMMENTS: Installation and maintenance of power lines.

DATE: 4/12/1988
INSTRUMENT: Oil, Gas and Mineral Lease
GRANTEE: **American Hunter Exploration Co.**
GRANTOR: Big Star Barge & Boat Co., Inc.
REFERENCE: L-646620
COMMENTS: 3 yr. lease of 7.87 acres

DATE: 10/31/1967
INSTRUMENT: Lease
GRANTEE: **Gulfstream Industries, Inc.**
GRANTOR: Marina Realty Corp.
REFERENCE: C-601743
COMMENTS: 7.87 acres; 2 yr. lease effective 11/1/67 for subject tract

**This report is subject to all LIMITATIONS AND DISCLAIMERS as stated herein:

- The information contained herein, is to our best knowledge and belief, a correct showing of Deeds, Easements, Right-of-Ways, Surface Leases, Environmental Liens and Environmental Activity Use and Limitation (AUL) documents recorded in the Real Property records of the County Clerk of said county that affect the surface estate of the subject tract.
- Deeds, Easements, Right-of-Ways, Surface Leases, Environmental Liens and AULs are only checked on the exact spelling of the names that appear in the deed(s) on this report.
- Mineral and/or subsurface information may appear, but should not be considered as conclusive.
- The information contained herein is not an opinion of title and should not be considered as such (an opinion of title can be provided by a title insurance company or a real estate attorney);
- This report should not be relied upon to determine the status of title in connection with a conveyance or financial transaction regarding the property described herein;
- This information is provided to the client (addressee) for the client's sole use and benefit and may not be used or relied upon by any other party.
- Any assignment or attempted assignment of any rights of Client relating to this report shall terminate any and all liability of issuer;
- The information contained herein is based upon the records of the county clerk's office, and errors or inconsistencies do appear in those records;
- Residential Services, LP shall not be liable for any amount in excess of the fee received from client for this report;
- Client accepts the risk for any incorrect information stated herein.
- NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.

APPENDIX B: ATLAS REGULATORY DATA REPORT

APPENDIX C: CITY DIRECTORY SEARCH REPORT

ATLAS

Assessment, Compliance and Permitting Support

May 18, 2011

Alana Lynes
Tolunay-Wong Engineers, Inc.
10710 S. Sam Houston Parkway West, Suite 100
Houston, Texas 77031

Re: City Directory Search
Big Star Property
18001 East Freeway
Channelview, Texas
Job #11-05-912

Ms. Lynes:

Atlas Environmental Research has reviewed city directories titled Greater Houston and Vicinity and Houston Suburban and Vicinity for the above referenced site. Atlas has attempted to review these directories in five year increments dating back to the beginning of the collection. Any gaps in this research reflect gaps in the Texas State Library's collection concerning this site.

17900-18100 blocks of East Freeway:

2002-all addresses are individuals or vacant except:
18001-Mega Sand Enterprises
-OME Corp.
1984-area is not covered in the Houston directories
1980-area is not covered in the Houston directories
1975-area is not covered in the Houston directories

17900-18200 blocks of Market Street:

2002-there are no listings for these blocks
1984-area is not covered in the Houston directories
1980-area is not covered in the Houston directories
1975-area is not covered in the Houston directories

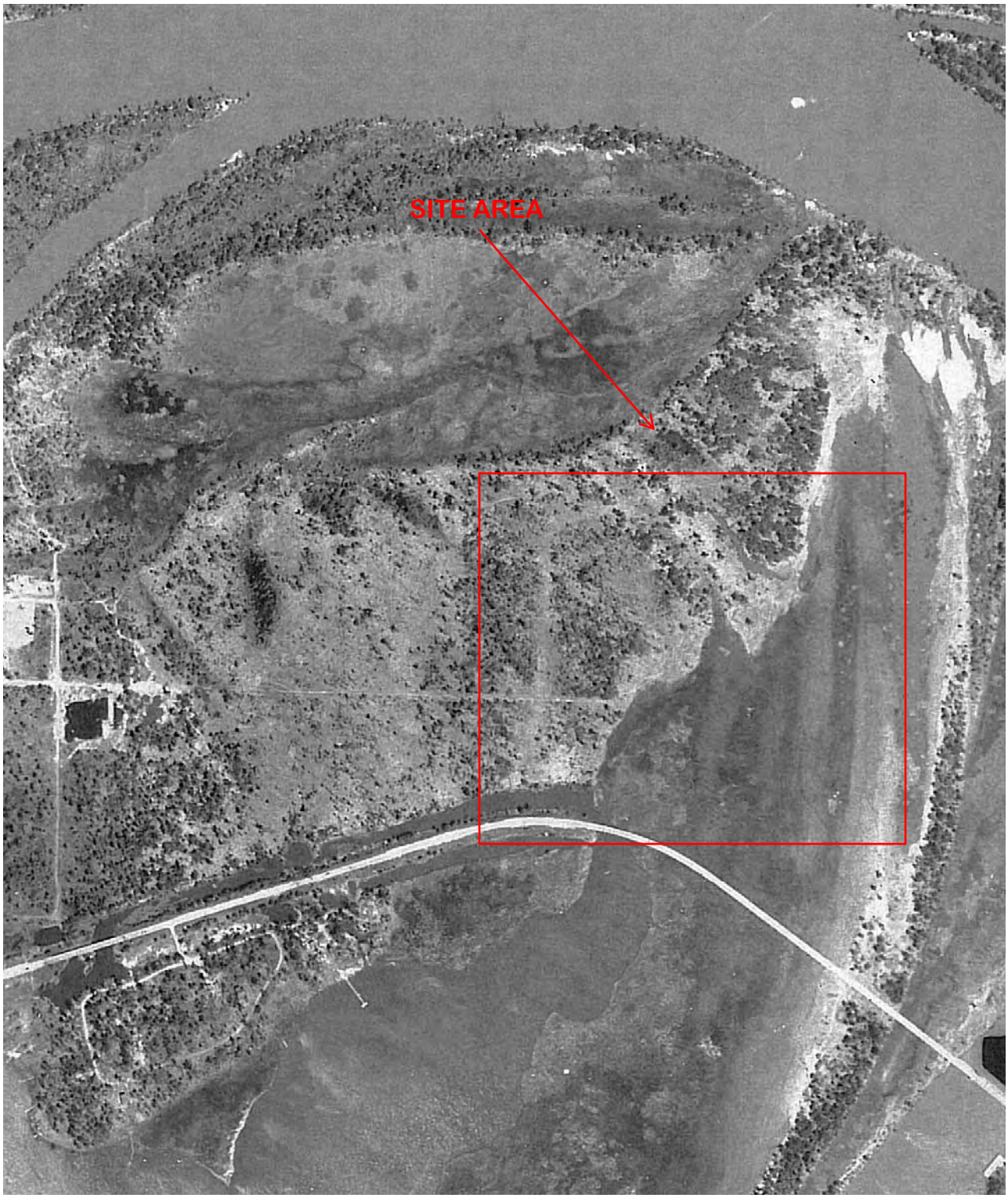
Please do not hesitate to call me at 800-940-0977 if you have any questions concerning this project. Thank you for utilizing Atlas's research services to meet your environmental information needs. I look forward to being of service to you in the future.

Sincerely,

Scott Anderson
Research Consultant

ATLAS E. R., Inc.
8705 Shoal Creek Blvd., Suite 207 • Austin, Texas 78757
800.940.0977 • 512.339.4155 • FAX 512.339.4413

APPENDIX D: HISTORICAL AERIAL PHOTOGRAPHS



1944 AERIAL PHOTOGRAPH

Source: Agricultural Stabilization & Conservation Service via Atlas

Scale: 1” ≈ 565’

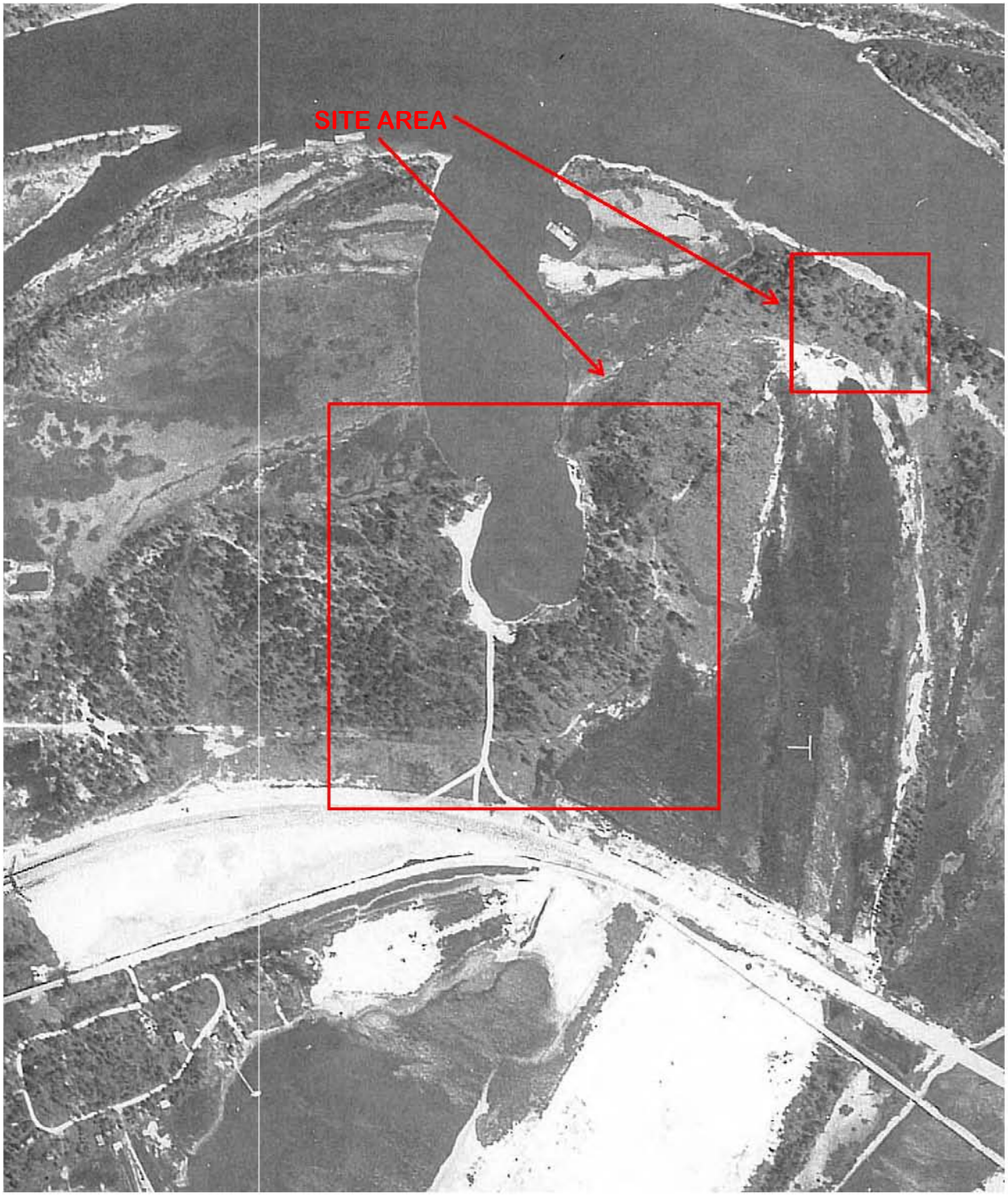
N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas



1957 AERIAL PHOTOGRAPH

Source: Agricultural Stabilization & Conservation Service via Atlas

Scale: 1" ≈ 565'

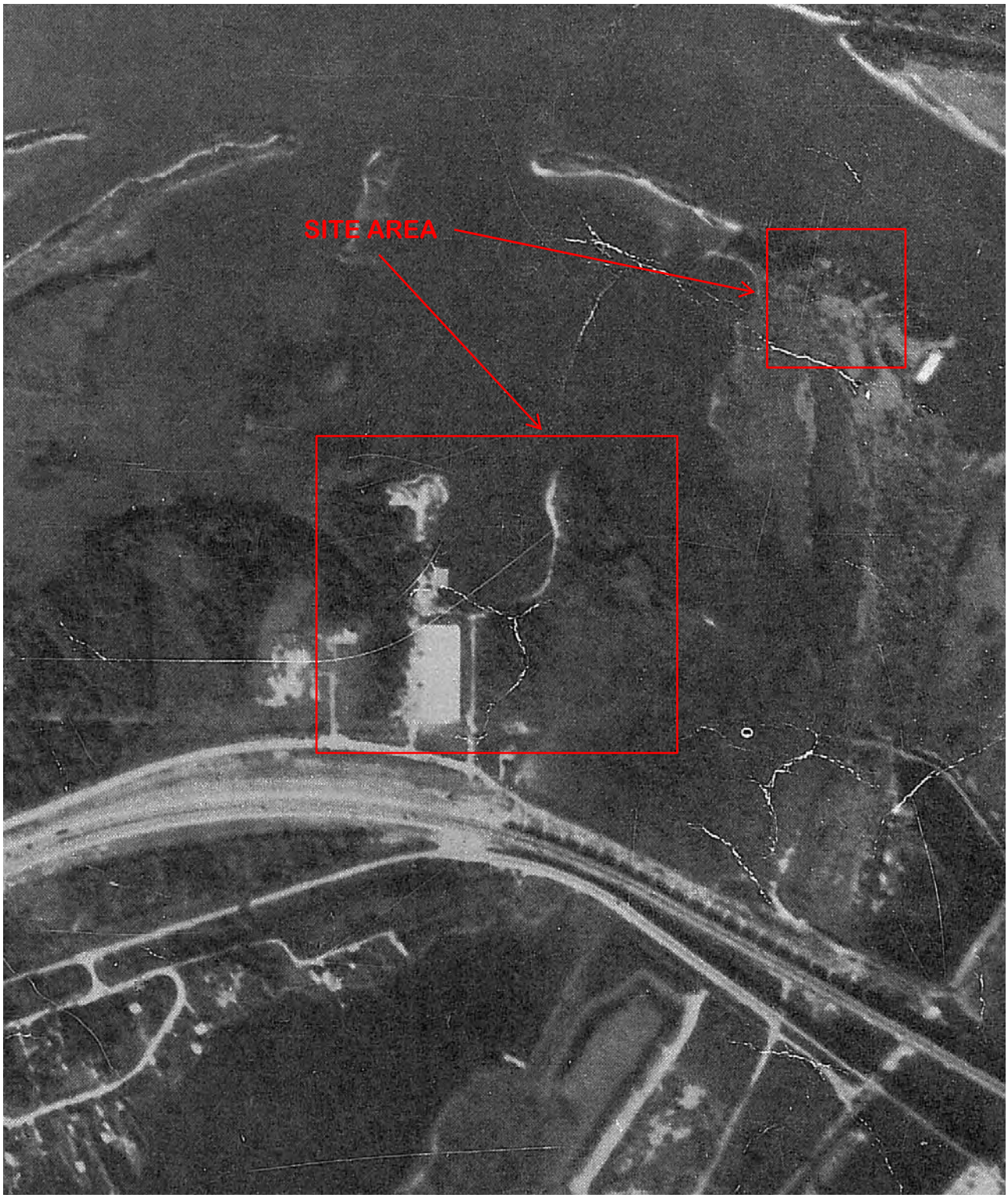
N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas



1969 AERIAL PHOTOGRAPH
Source: Wallace (private company) via Atlas

Scale: 1” ≈ 565’

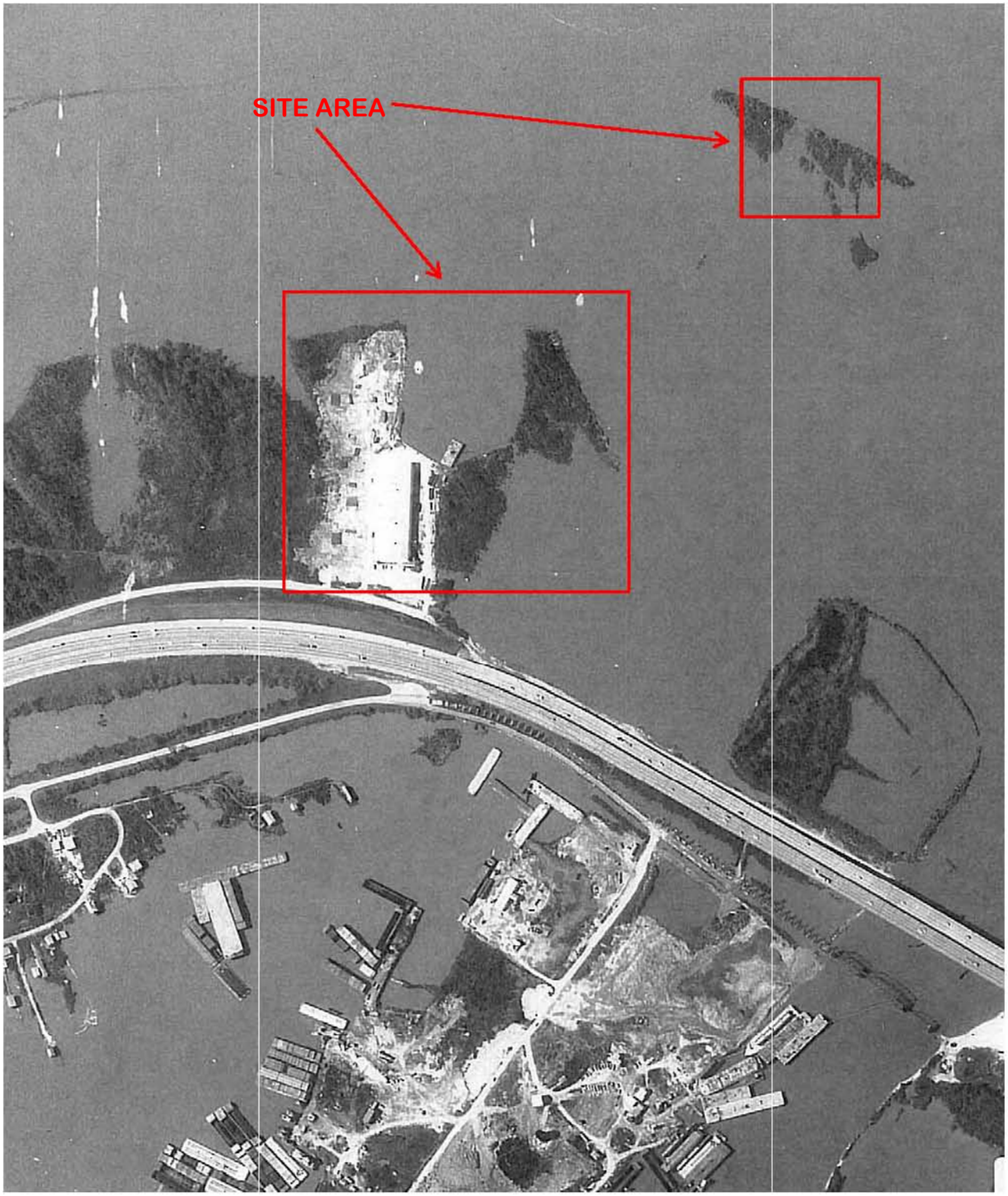
N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas



1979 AERIAL PHOTOGRAPH

Source: Texas Department of Transportation via Atlas

Scale: 1” ≈ 565’

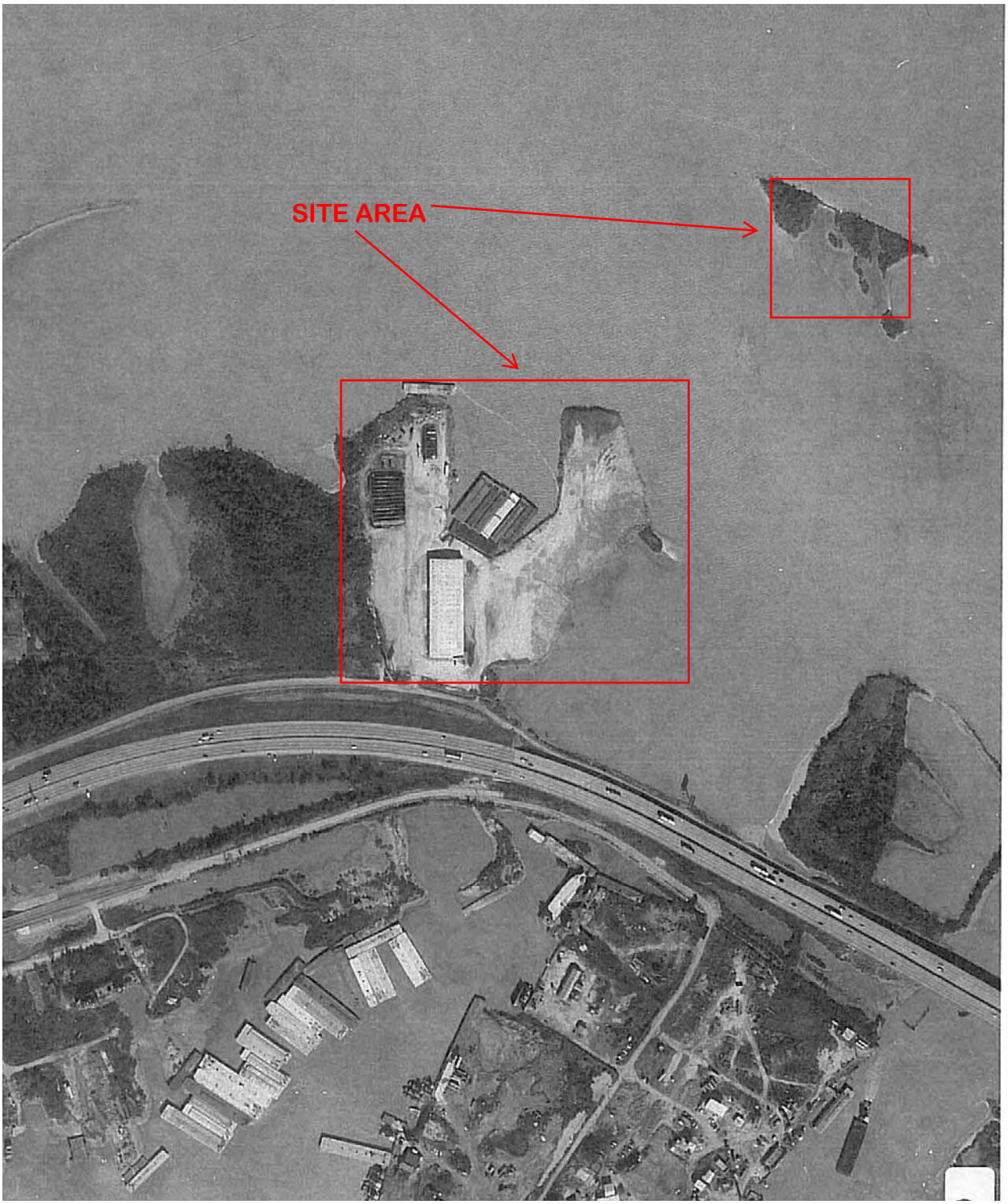
N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas



1986 AERIAL PHOTOGRAPH

Source: Texas Department of Transportation via Atlas

Scale: 1” ≈ 565’

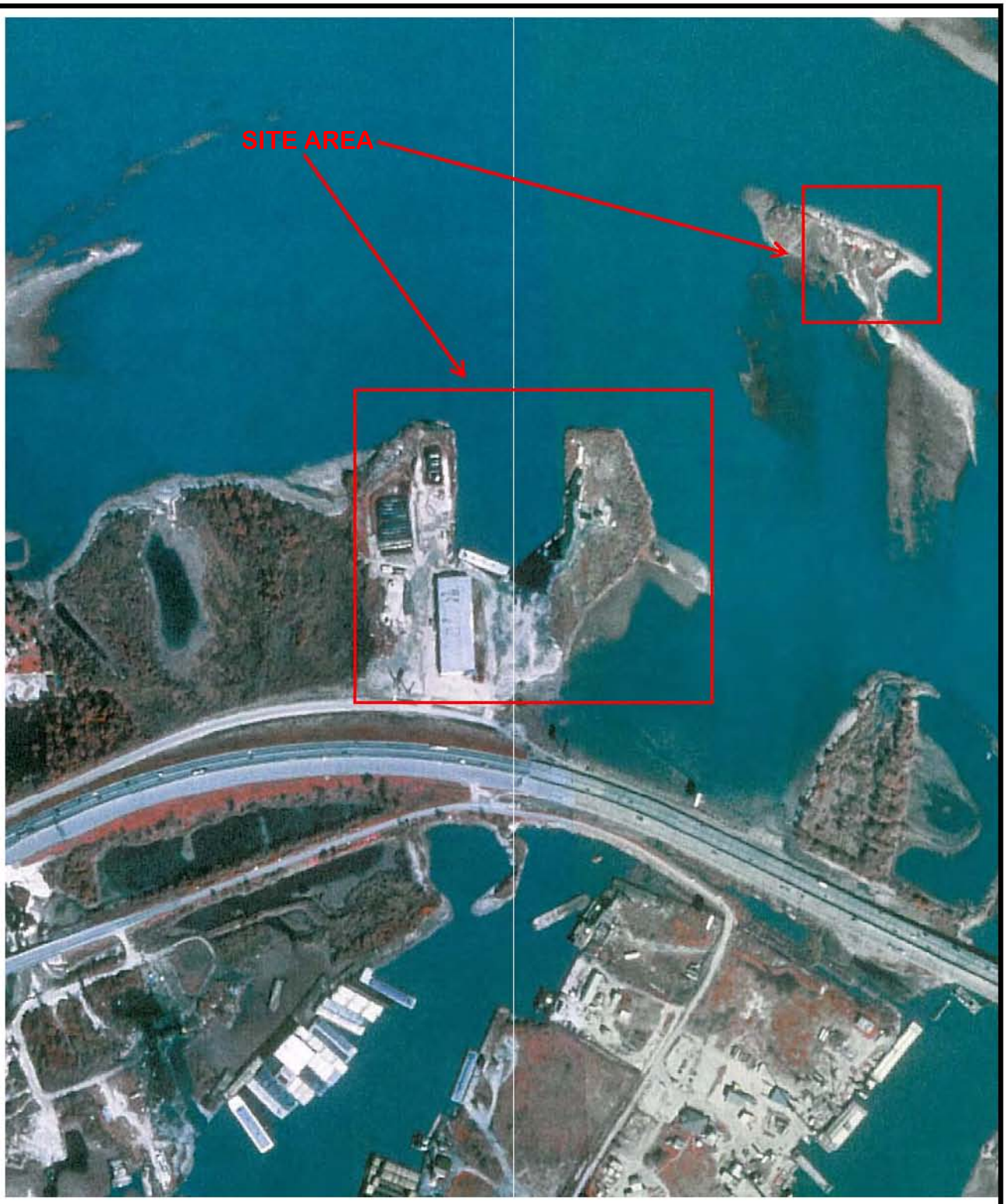
N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas



1996 AERIAL PHOTOGRAPH

Source: United States Geological Survey via Atlas

Scale: 1” ≈ 565’

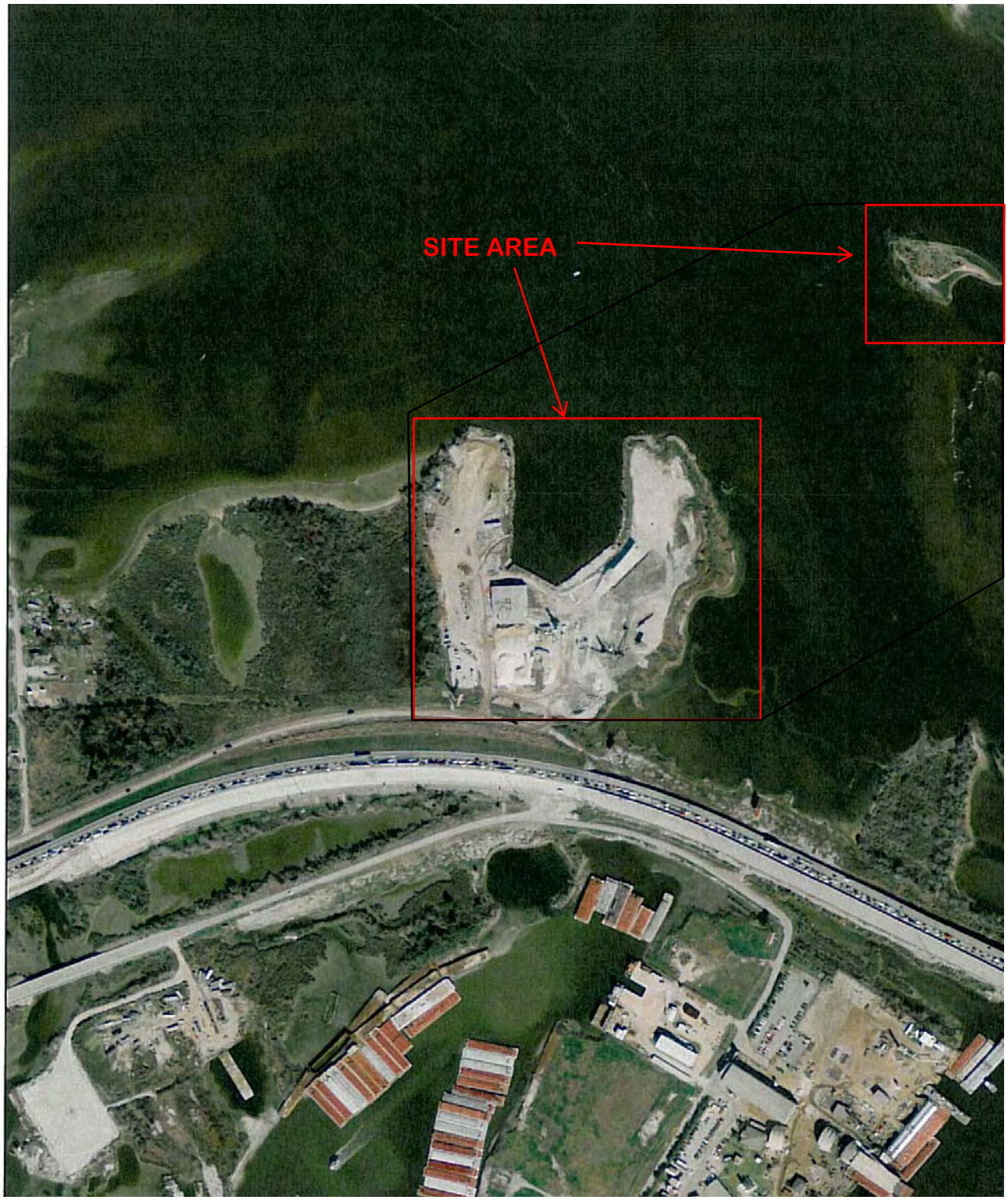
N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas



2009 AERIAL PHOTOGRAPH

Source: United States Department of Agriculture via Atlas

Scale: 1” ≈ 565’

N

Project: Phase I ESA
Big Star Property
18001 I-10
Channelview, Harris County, Texas

Tolunay-Wong Engineers, Inc.
Houston, Texas

Project No.: 11.12.014

Client: San Jacinto River Fleet, LLC
Channelview, Texas

Appendix E: Third Party Analytical Results for Sample Locations SJTS014 to SJTS028

Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	1234678HepDioxin	68.4	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	1234678HepFuran	7.68	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	1234789HepFuran	0.837	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	123478HexDioxin	0.476	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	123478HexFuran	1.18	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	123678HexDioxin	1.79	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	123678HexFuran	0.422	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	123789HexDioxin	1.18	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	123789HexFuran	0.0715	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	12378PenDioxin	0.0316	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	12378PenFuran	0.0371	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	234678HexFuran	0.608	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	23478PenFuran	0.0366	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	2378TetDioxin	0.0317	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	2378TetFuran	0.358	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	HpClDiBzDioxin	151	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	HpClDiBzFuran	29.8	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	HxClDiBzDioxin	11.9	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	HxClDiBzFuran	13.3	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	OctClDiBzDioxin	3330	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	OctClDiBzFuran	23.8	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.316	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	PenClDiBzFuran	2.31	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.206	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	DioxinFura	TetClDiBzFuran	0.628	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	Clay	13.5	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	CoarseSand	11.6	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	Fine_Sand	12	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	Gravel	8.67	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	Med. Sand	12.3	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	Silt	25.5	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	VCoarseSand	6.82	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	GrainSize	VeryFineSand	9.49	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Aluminum	12100	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Arsenic	2.34	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Barium	98	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Cadmium	0.098	2	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Chromium	10.2	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Cobalt	6.2	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Copper	8	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Lead	11.9	3	DryWt	mg/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Magnesium	2220	3	DryWt	mg/kg	

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Manganese	271	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Mercury	0.0115	3	DryWt	mg/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Nickel	11.1	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Thallium	0.13	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Vanadium	27.4	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	Metals	Zinc	33	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	PhysChem	Carbon_org	0.494	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	PhysChem	Solids	76.5	3	WetWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	1234678HepDioxin	86.4	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	1234678HepFuran	10.7	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.572	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.404	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	123478HexFuran	0.874	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	123678HexDioxin	2.46	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	123678HexFuran	0.184	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	123789HexDioxin	1.03	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	123789HexFuran	0.229	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.0379	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	12378PenFuran	0.0426	3	DryWt	ng/kg	U
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	234678HexFuran	0.987	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	23478PenFuran	0.332	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.458	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	2378TetFuran	1.98	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	206	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	34.2	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	18.7	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	19.6	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	2170	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	24.2	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.408	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	9.54	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.458	3	DryWt	ng/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	2.5	3	DryWt	ng/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	Clay	5.82	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	CoarseSand	5.74	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	Fine_Sand	26.6	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	Gravel	11.3	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	Med. Sand	17.3	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	Silt	14.2	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	VCoarseSand	1.76	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	GrainSize	VeryFineSand	16.1	3	DryWt	percent	

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RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Aluminum	4600	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Arsenic	1.65	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Barium	40.1	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Cadmium	0.126	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Chromium	6.3	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Cobalt	2.9	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Copper	6.4	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Lead	15.5	3	DryWt	mg/kg	J
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Magnesium	893	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Manganese	117	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Mercury	0.034	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Nickel	5.1	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Thallium	0.069	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Vanadium	13.2	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	Metals	Zinc	289	3	DryWt	mg/kg	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	PhysChem	Carbon_org	0.697	3	DryWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	PhysChem	Solids	84.6	3	WetWt	percent	
RI_Soil	SJTS014	SJTS014	3215913	13858828	2/10/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	44	3	DryWt	ug/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	1234678HepDioxin	15	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	1234678HepFuran	3.03	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	1234789HepFuran	0.223	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	123478HexDioxin	0.127	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	123478HexFuran	2.08	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	123678HexDioxin	0.666	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	123678HexFuran	1.59	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	123789HexDioxin	0.636	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	123789HexFuran	0.0735	3	DryWt	ng/kg	U
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	12378PenDioxin	0.034	3	DryWt	ng/kg	U
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	12378PenFuran	0.393	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	234678HexFuran	3.68	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	23478PenFuran	2.49	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	2378TetDioxin	0.173	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	2378TetFuran	5.8	2	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	HpClDiBzDioxin	33.8	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	HpClDiBzFuran	6.82	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	HxClDiBzDioxin	7.32	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	HxClDiBzFuran	44	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	OctClDiBzDioxin	639	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	OctClDiBzFuran	4.44	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.522	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	PenClDiBzFuran	109	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.562	3	DryWt	ng/kg	J

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RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	DioxinFura	TetClDiBzFuran	53.9	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	Clay	1.88	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	CoarseSand	5.46	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	Fine_Sand	4.08	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	Gravel	70	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	Med. Sand	6.04	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	Silt	4.42	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	VCoarseSand	6.93	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	GrainSize	VeryFineSand	1.83	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Aluminum	2670	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Arsenic	1.12	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Barium	34.8	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Cadmium	0.044	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Chromium	3.22	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Cobalt	1.75	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Copper	1.45	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Lead	9.9	2	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Magnesium	12000	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Manganese	222	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Mercury	0.006	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Nickel	3	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Thallium	0.0275	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Vanadium	7.8	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	Metals	Zinc	8.4	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	PhysChem	Carbon_org	1.77	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	PhysChem	Solids	92.8	3	WetWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	95	3	DryWt	ug/kg	U
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	1234678HepDioxin	18.8	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	1234678HepFuran	2.23	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	1234789HepFuran	0.291	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	123478HexDioxin	0.129	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	123478HexFuran	1.26	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	123678HexDioxin	0.629	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	123678HexFuran	0.815	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	123789HexDioxin	0.512	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	123789HexFuran	0.0446	3	DryWt	ng/kg	U
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	12378PenDioxin	0.186	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	12378PenFuran	0.59	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	234678HexFuran	1.68	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	23478PenFuran	1.62	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	2378TetDioxin	0.232	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	2378TetFuran	3.62	3	DryWt	ng/kg	

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	HpClDiBzDioxin	41.4	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	HpClDiBzFuran	6.09	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	HxClDiBzDioxin	5.28	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	HxClDiBzFuran	17.9	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	OctClDiBzDioxin	1020	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	OctClDiBzFuran	5.6	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	PenClDiBzDioxin	0.709	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	PenClDiBzFuran	46.5	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	TetClDiBzDioxin	0.292	3	DryWt	ng/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	DioxinFura	TetClDiBzFuran	32.7	3	DryWt	ng/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	Clay	2.44	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	CoarseSand	5.69	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	Fine_Sand	4.11	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	Gravel	67.9	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	Med. Sand	6.65	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	Silt	5.06	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	VCoarseSand	5.93	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	GrainSize	VeryFineSand	2.08	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Aluminum	3090	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Arsenic	1.2	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Barium	35.1	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Cadmium	0.046	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Chromium	4.42	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Cobalt	1.4	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Copper	1.9	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Lead	7.3	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Magnesium	12200	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Manganese	221	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Mercury	0.007	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Nickel	2.8	3	DryWt	mg/kg	J
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Thallium	0.032	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Vanadium	9.3	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	Metals	Zinc	9.6	3	DryWt	mg/kg	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	PhysChem	Carbon_org	1.68	3	DryWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	PhysChem	Solids	90.6	3	WetWt	percent	
RI_Soil	SJTS015	SJTS015	3215845	13858687	2/10/2011	15.24	24.384	SemiVolati	bs2EtHxPhthalate	110	3	DryWt	ug/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	1234678HepDioxin	62.5	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	1234678HepFuran	2.65	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	1234789HepFuran	0.218	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	123478HexDioxin	0.352	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	123478HexFuran	0.384	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	123678HexDioxin	0.872	3	DryWt	ng/kg	J

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RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	123678HexFuran	0.149	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	123789HexDioxin	1.06	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	123789HexFuran	0.0192	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	12378PenDioxin	0.061	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	12378PenFuran	0.0242	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	234678HexFuran	0.119	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	23478PenFuran	0.157	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	2378TetDioxin	0.0315	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	2378TetFuran	0.219	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	HpClDiBzDioxin	114	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	HpClDiBzFuran	5.83	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	HxClDiBzDioxin	9.49	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	HxClDiBzFuran	3.38	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	OctClDiBzDioxin	7010	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	OctClDiBzFuran	7.34	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.061	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	PenClDiBzFuran	1.91	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.141	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	DioxinFura	TetClDiBzFuran	0.597	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	Clay	30.5	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	CoarseSand	1.62	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	Fine_Sand	9.13	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	Gravel	2.59	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	Med. Sand	4.06	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	Silt	40.6	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	VCoarseSand	2.29	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	GrainSize	VeryFineSand	11.1	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Aluminum	10500	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Arsenic	1.72	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Barium	132	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Cadmium	0.052	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Chromium	8.52	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Cobalt	4.6	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Copper	6.7	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Lead	11	3	DryWt	mg/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Magnesium	1340	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Manganese	182	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Mercury	0.017	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Nickel	8.2	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Thallium	0.116	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Vanadium	26.2	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	Metals	Zinc	22.9	3	DryWt	mg/kg	

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RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	PhysChem	Carbon_org	0.554	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	PhysChem	Solids	80.8	3	WetWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	9.5	3	DryWt	ug/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	1234678HepDioxin	24.5	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	1234678HepFuran	1.12	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.0982	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.208	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	123478HexFuran	0.261	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	123678HexDioxin	0.489	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	123678HexFuran	0.108	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	123789HexDioxin	0.471	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	123789HexFuran	0.022	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.0411	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	12378PenFuran	0.0254	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	234678HexFuran	0.0743	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	23478PenFuran	0.0257	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.0279	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	2378TetFuran	0.0298	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	57.8	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	2.86	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	4.03	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	1.83	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	3980	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	2.59	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.0411	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	0.746	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.0279	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	0.0298	3	DryWt	ng/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	Clay	32.5	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	CoarseSand	1.62	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	Fine_Sand	14	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	Gravel	2.58	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	Med. Sand	5.64	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	Silt	36	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	VCoarseSand	1.81	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	GrainSize	VeryFineSand	11	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Aluminum	11200	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Arsenic	2.06	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Barium	96	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Cadmium	0.105	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Chromium	9.22	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Cobalt	5.3	3	DryWt	mg/kg	

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Copper	7.1	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Lead	17.7	3	DryWt	mg/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Magnesium	1400	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Manganese	259	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Mercury	0.018	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Nickel	8.1	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Thallium	0.136	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Vanadium	24	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	Metals	Zinc	34.3	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	PhysChem	Carbon_org	0.553	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	PhysChem	Solids	80.9	3	WetWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	1234678HepDioxin	61.9	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	1234678HepFuran	8.23	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	1234789HepFuran	0.525	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	123478HexDioxin	0.351	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	123478HexFuran	2.45	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	123678HexDioxin	1.84	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	123678HexFuran	0.816	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	123789HexDioxin	0.873	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	123789HexFuran	0.0886	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	12378PenDioxin	0.262	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	12378PenFuran	0.635	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	234678HexFuran	0.659	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	23478PenFuran	0.5	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	2378TetDioxin	2.07	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	2378TetFuran	8	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	HpClDiBzDioxin	140	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	HpClDiBzFuran	24.6	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	HxClDiBzDioxin	16.1	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	HxClDiBzFuran	22.3	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	OctClDiBzDioxin	2730	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	OctClDiBzFuran	25.3	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	PenClDiBzDioxin	1.04	3	DryWt	ng/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	PenClDiBzFuran	10.1	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	TetClDiBzDioxin	2.07	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	DioxinFura	TetClDiBzFuran	15.5	3	DryWt	ng/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	Clay	12.6	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	CoarseSand	3.34	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	Fine_Sand	18.9	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	Gravel	18.7	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	Med. Sand	13.5	3	DryWt	percent	

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RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	Silt	20.9	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	VCoarseSand	2.4	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	GrainSize	VeryFineSand	12.6	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Aluminum	4220	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Arsenic	1.48	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Barium	38.5	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Cadmium	0.091	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Chromium	6.77	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Cobalt	2.8	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Copper	6.4	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Lead	9.8	3	DryWt	mg/kg	J
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Magnesium	1120	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Manganese	135	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Mercury	0.052	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Nickel	4.7	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Thallium	0.07	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Vanadium	11.3	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	Metals	Zinc	34	3	DryWt	mg/kg	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	PhysChem	Carbon_org	0.574	3	DryWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	PhysChem	Solids	84.6	3	WetWt	percent	
RI_Soil	SJTS016	SJTS016	3215980	13858689	2/10/2011	30.48	57.912	SemiVolati	bs2EtHxPhthalate	14	3	DryWt	ug/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	1234678HepDioxin	54.3	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	1234678HepFuran	3.96	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	1234789HepFuran	0.273	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	123478HexDioxin	0.396	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	123478HexFuran	0.441	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	123678HexDioxin	1.14	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	123678HexFuran	0.164	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	123789HexDioxin	0.854	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	123789HexFuran	0.0387	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	12378PenDioxin	0.172	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	12378PenFuran	0.114	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	234678HexFuran	0.199	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	23478PenFuran	0.13	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	2378TetDioxin	0.283	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	2378TetFuran	0.96	2	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	HpClDiBzDioxin	120	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	HpClDiBzFuran	13.7	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	HxClDiBzDioxin	10.7	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	HxClDiBzFuran	5.33	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	OctClDiBzDioxin	2690	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	OctClDiBzFuran	16.2	3	DryWt	ng/kg	

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RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.0378	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	PenClDiBzFuran	2.61	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.0314	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	DioxinFura	TetClDiBzFuran	1.98	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	Clay	9.38	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	CoarseSand	4.96	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	Fine_Sand	7.27	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	Gravel	44.2	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	Med. Sand	8.18	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	Silt	13.9	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	VCoarseSand	5.32	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	GrainSize	VeryFineSand	4.75	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Aluminum	4750	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Arsenic	1.66	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Barium	60.9	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Cadmium	0.085	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Chromium	6.61	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Cobalt	2.2	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Copper	3.5	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Lead	7.9	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Magnesium	1150	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Manganese	106	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Mercury	0.012	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Nickel	3.3	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Thallium	0.074	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Vanadium	13	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	Metals	Zinc	17.2	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	PhysChem	Carbon_org	0.879	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	PhysChem	Solids	87.6	3	WetWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	35	3	DryWt	ug/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	1234678HepDioxin	17.7	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	1234678HepFuran	1.32	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.0393	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.118	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	123478HexFuran	0.188	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	123678HexDioxin	0.488	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	123678HexFuran	0.101	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	123789HexDioxin	0.237	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	123789HexFuran	0.0208	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.0278	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	12378PenFuran	0.019	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	234678HexFuran	0.0707	3	DryWt	ng/kg	J

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	23478PenFuran	0.0193	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.0266	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	2378TetFuran	0.33	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	38	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	3.85	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	4.07	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	2.41	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	1360	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	4.03	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.142	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	2.37	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.0266	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	0.647	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	Clay	2.97	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	CoarseSand	7.4	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	Fine_Sand	3.93	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	Gravel	54.6	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	Med. Sand	6.44	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	Silt	6.56	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	VCoarseSand	10.9	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	GrainSize	VeryFineSand	1.74	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Aluminum	1700	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Arsenic	1.09	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Barium	22.4	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Cadmium	0.063	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Chromium	3.29	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Cobalt	1.1	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Copper	1.8	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Lead	5.8	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Magnesium	2410	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Manganese	82.7	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Mercury	0.009	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Nickel	4.1	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Thallium	0.052	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Vanadium	19.5	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	Metals	Zinc	17	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	PhysChem	Carbon_org	2.58	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	PhysChem	Solids	95.8	3	WetWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	120	3	DryWt	ug/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	1234678HepDioxin	12.4	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	1234678HepFuran	0.917	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	1234789HepFuran	0.0452	3	DryWt	ng/kg	U

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RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	123478HexDioxin	0.0266	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	123478HexFuran	0.708	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	123678HexDioxin	0.375	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	123678HexFuran	0.184	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	123789HexDioxin	0.291	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	123789HexFuran	0.0284	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	12378PenDioxin	0.0413	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	12378PenFuran	0.374	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	234678HexFuran	0.0279	3	DryWt	ng/kg	U
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	23478PenFuran	0.305	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	2378TetDioxin	3.48	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	2378TetFuran	12.4	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	HpClDiBzDioxin	33.9	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	HpClDiBzFuran	2.47	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	HxClDiBzDioxin	4.65	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	HxClDiBzFuran	1.5	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	OctClDiBzDioxin	650	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	OctClDiBzFuran	2.2	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	PenClDiBzDioxin	0.325	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	PenClDiBzFuran	2.07	3	DryWt	ng/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	TetClDiBzDioxin	3.89	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	DioxinFura	TetClDiBzFuran	21.1	3	DryWt	ng/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	Clay	4.56	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	CoarseSand	3.92	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	Fine_Sand	16.6	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	Gravel	26.2	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	Med. Sand	9.65	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	Silt	17.4	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	VCoarseSand	3.61	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	GrainSize	VeryFineSand	17.6	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Aluminum	1410	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Arsenic	0.54	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Barium	17.2	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Cadmium	0.034	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Chromium	2	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Cobalt	1.2	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Copper	1.9	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Lead	3.3	3	DryWt	mg/kg	J
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Magnesium	463	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Manganese	31.1	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Mercury	0.005	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Nickel	1.9	3	DryWt	mg/kg	J

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RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Thallium	0.027	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Vanadium	5.6	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	Metals	Zinc	12.2	3	DryWt	mg/kg	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	PhysChem	Carbon_org	1.2	3	DryWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	PhysChem	Solids	85.8	3	WetWt	percent	
RI_Soil	SJTS017	SJTS017	3215914	13858546	2/10/2011	30.48	60.96	SemiVolati	bs2EtHxPhthalate	105	3	DryWt	ug/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	1234678HepDioxin	3.43	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	1234678HepFuran	0.345	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	1234789HepFuran	0.0696	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	123478HexDioxin	0.0202	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	123478HexFuran	0.692	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	123678HexDioxin	0.0264	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	123678HexFuran	0.183	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	123789HexDioxin	0.169	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	123789HexFuran	0.02	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	12378PenDioxin	0.0346	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	12378PenFuran	0.665	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	234678HexFuran	0.0194	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	23478PenFuran	0.408	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	2378TetDioxin	6.58	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	2378TetFuran	26.8	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	HpClDiBzDioxin	11.6	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	HpClDiBzFuran	0.711	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	HxClDiBzDioxin	2.78	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	HxClDiBzFuran	0.778	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	OctClDiBzDioxin	93.5	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	OctClDiBzFuran	0.93	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.41	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	PenClDiBzFuran	1.44	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	TetClDiBzDioxin	8.2	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	DioxinFura	TetClDiBzFuran	50	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	Clay	5.09	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	CoarseSand	0.25	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	Fine_Sand	9.36	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	Gravel	0.22	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	Med. Sand	1.2	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	Silt	57.5	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	VCoarseSand	0.24	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	GrainSize	VeryFineSand	31.6	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Aluminum	1610	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Arsenic	0.91	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Barium	13.1	3	DryWt	mg/kg	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Cadmium	0.021	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Chromium	1.89	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Cobalt	2	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Copper	1.6	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Lead	1.5	3	DryWt	mg/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Magnesium	597	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Manganese	10.8	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Mercury	0.005	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Nickel	2.1	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Thallium	0.035	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Vanadium	4.9	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	Metals	Zinc	7.9	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	PhysChem	Carbon_org	0.183	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	PhysChem	Solids	73.5	3	WetWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	8.9	3	DryWt	ug/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	1234678HepDioxin	1.33	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	1234678HepFuran	0.507	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.228	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.032	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	123478HexFuran	2.47	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	123678HexDioxin	0.04	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	123678HexFuran	0.597	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	123789HexDioxin	0.034	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	123789HexFuran	0.023	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.242	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	12378PenFuran	1.7	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	234678HexFuran	0.0217	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	23478PenFuran	1.23	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	2378TetDioxin	24.2	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	2378TetFuran	84	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	5.6	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	0.228	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	1.1	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	3.35	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	33.5	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	0.518	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.242	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	3.83	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	26.6	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	160	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	Clay	4.81	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	CoarseSand	0.34	3	DryWt	percent	

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RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	Fine_Sand	38.6	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	Gravel	0.46	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	Med. Sand	3.43	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	Silt	16.6	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	VCoarseSand	0.65	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	GrainSize	VeryFineSand	35.4	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Aluminum	1330	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Arsenic	0.64	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Barium	11.2	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Cadmium	0.019	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Chromium	1.77	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Cobalt	1.7	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Copper	1.3	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Lead	1.5	3	DryWt	mg/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Magnesium	525	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Manganese	14.6	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Mercury	0.005	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Nickel	1.7	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Thallium	0.029	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Vanadium	3.7	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	Metals	Zinc	4.5	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	PhysChem	Carbon_org	0.125	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	PhysChem	Solids	76	3	WetWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	1234678HepDioxin	4.93	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	1234678HepFuran	3.81	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	1234789HepFuran	1.34	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	123478HexDioxin	0.0286	3	DryWt	ng/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	123478HexFuran	15.6	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	123678HexDioxin	0.179	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	123678HexFuran	3.54	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	123789HexDioxin	0.28	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	123789HexFuran	0.175	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	12378PenDioxin	0.975	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	12378PenFuran	10.8	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	234678HexFuran	0.645	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	23478PenFuran	7.44	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	2378TetDioxin	144	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	2378TetFuran	490	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	HpClDiBzDioxin	20	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	HpClDiBzFuran	6.48	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	HxClDiBzDioxin	4.37	3	DryWt	ng/kg	J

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RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	HxClDiBzFuran	22.7	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	OctClDiBzDioxin	111	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	OctClDiBzFuran	2.16	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	PenClDiBzDioxin	0.535	3	DryWt	ng/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	PenClDiBzFuran	31.2	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	TetClDiBzDioxin	158	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	DioxinFura	TetClDiBzFuran	939	3	DryWt	ng/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	Clay	6.86	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	CoarseSand	1.36	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	Fine_Sand	26.1	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	Gravel	0.37	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	Med. Sand	7.7	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	Silt	33.8	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	VCoarseSand	0.62	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	GrainSize	VeryFineSand	24.5	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Aluminum	1830	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Arsenic	0.9	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Barium	16	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Cadmium	0.027	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Chromium	2.24	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Cobalt	2	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Copper	1.8	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Lead	1.5	3	DryWt	mg/kg	U
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Magnesium	683	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Manganese	35.1	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Mercury	0.01	1	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Nickel	2.1	3	DryWt	mg/kg	J
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Thallium	0.043	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Vanadium	4.8	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	Metals	Zinc	4.7	3	DryWt	mg/kg	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	PhysChem	Carbon_org	0.147	3	DryWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	PhysChem	Solids	76.9	3	WetWt	percent	
RI_Soil	SJTS018	SJTS018	3216117	13858537	2/10/2011	30.48	60.96	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	1234678HepDioxin	37.7	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	1234678HepFuran	1.68	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	1234789HepFuran	0.144	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	123478HexDioxin	0.328	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	123478HexFuran	0.284	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	123678HexDioxin	0.667	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	123678HexFuran	0.106	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	123789HexDioxin	0.824	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	123789HexFuran	0.026	3	DryWt	ng/kg	U

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	12378PenDioxin	0.124	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	12378PenFuran	0.0297	3	DryWt	ng/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	234678HexFuran	0.0852	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	23478PenFuran	0.127	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	2378TetDioxin	0.363	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	2378TetFuran	0.84	2	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	HpClDiBzDioxin	92.8	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	HpClDiBzFuran	4.41	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	HxClDiBzDioxin	8.63	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	HxClDiBzFuran	1.31	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	OctClDiBzDioxin	4180	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	OctClDiBzFuran	5.77	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.0401	3	DryWt	ng/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	PenClDiBzFuran	0.496	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.0318	3	DryWt	ng/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	DioxinFura	TetClDiBzFuran	1.7	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	Clay	23.4	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	CoarseSand	3.99	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	Fine_Sand	4.16	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	Gravel	16.8	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	Med. Sand	4.51	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	Silt	35.6	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	VCoarseSand	5.67	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	GrainSize	VeryFineSand	6.6	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Aluminum	14200	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Arsenic	3.05	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Barium	143	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Cadmium	0.132	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Chromium	12.7	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Cobalt	8.7	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Copper	11.3	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Lead	15.7	3	DryWt	mg/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Magnesium	2780	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Manganese	351	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Mercury	0.015	3	DryWt	mg/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Nickel	14	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Thallium	0.17	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Vanadium	34.6	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	Metals	Zinc	47.1	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	PhysChem	Carbon_org	1.23	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	PhysChem	Solids	78	3	WetWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	17.5	3	DryWt	ug/kg	U

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	1234678HepDioxin	140	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	1234678HepFuran	2.22	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.201	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.725	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	123478HexFuran	0.283	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	123678HexDioxin	1.39	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	123678HexFuran	0.134	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	123789HexDioxin	2.1	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	123789HexFuran	0.0651	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.361	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	12378PenFuran	0.029	3	DryWt	ng/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	234678HexFuran	0.25	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	23478PenFuran	0.0278	3	DryWt	ng/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.278	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	2378TetFuran	0.904	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	287	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	5.98	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	22.3	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	3.14	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	23400	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	10.8	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	1.41	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	1.71	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	1.3	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	1.12	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	Clay	33.4	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	CoarseSand	2.46	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	Fine_Sand	3.76	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	Gravel	10.2	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	Med. Sand	3.63	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	Silt	36.8	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	VCoarseSand	3	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	GrainSize	VeryFineSand	7.27	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Aluminum	12900	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Arsenic	2.42	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Barium	124	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Cadmium	0.162	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Chromium	11.3	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Cobalt	4.5	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Copper	9.9	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Lead	25.7	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Magnesium	1770	3	DryWt	mg/kg	

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RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Manganese	202	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Mercury	0.021	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Nickel	8.9	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Thallium	0.137	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Vanadium	32.6	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	Metals	Zinc	43.4	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	PhysChem	Carbon_org	0.72	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	PhysChem	Solids	80.9	3	WetWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	39	3	DryWt	ug/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	1234678HepDioxin	21.5	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	1234678HepFuran	1.99	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	1234789HepFuran	0.226	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	123478HexDioxin	0.174	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	123478HexFuran	0.785	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	123678HexDioxin	0.661	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	123678HexFuran	0.214	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	123789HexDioxin	0.35	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	123789HexFuran	0.0236	3	DryWt	ng/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	12378PenDioxin	0.0204	3	DryWt	ng/kg	U
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	12378PenFuran	0.398	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	234678HexFuran	0.101	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	23478PenFuran	0.279	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	2378TetDioxin	3.85	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	2378TetFuran	12.8	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	HpClDiBzDioxin	62.6	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	HpClDiBzFuran	6.38	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	HxClDiBzDioxin	8.65	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	HxClDiBzFuran	2.92	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	OctClDiBzDioxin	685	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	OctClDiBzFuran	6.71	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	PenClDiBzDioxin	0.455	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	PenClDiBzFuran	2.23	3	DryWt	ng/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	TetClDiBzDioxin	4.67	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	DioxinFura	TetClDiBzFuran	24	3	DryWt	ng/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	Clay	19.3	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	CoarseSand	2.5	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	Fine_Sand	17.6	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	Gravel	4.64	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	Med. Sand	9.56	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	Silt	27.7	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	VCoarseSand	1.58	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	GrainSize	VeryFineSand	14.4	3	DryWt	percent	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Aluminum	3550	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Arsenic	1.34	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Barium	47.9	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Cadmium	0.114	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Chromium	4.22	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Cobalt	2.5	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Copper	4.2	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Lead	6.1	3	DryWt	mg/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Magnesium	837	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Manganese	87.2	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Mercury	0.014	3	DryWt	mg/kg	J
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Nickel	4.1	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Thallium	0.07	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Vanadium	8.7	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	Metals	Zinc	21.2	3	DryWt	mg/kg	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	PhysChem	Carbon_org	0.676	3	DryWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	PhysChem	Solids	86.6	3	WetWt	percent	
RI_Soil	SJTS019	SJTS019	3215976	13858421	2/10/2011	30.48	60.96	SemiVolati	bs2EtHxPhthalate	9.5	3	DryWt	ug/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	1234678HepDioxin	0.829	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	1234678HepFuran	0.0805	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	1234789HepFuran	0.0226	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	123478HexDioxin	0.0172	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	123478HexFuran	0.071	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	123678HexDioxin	0.0214	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	123678HexFuran	0.016	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	123789HexDioxin	0.0182	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	123789HexFuran	0.0194	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	12378PenDioxin	0.0261	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	12378PenFuran	0.025	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	234678HexFuran	0.018	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	23478PenFuran	0.0222	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	2378TetDioxin	0.404	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	2378TetFuran	1.1	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	HpClDiBzDioxin	2.59	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	HpClDiBzFuran	0.0805	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	HxClDiBzDioxin	0.0172	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	HxClDiBzFuran	0.071	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	OctClDiBzDioxin	17.1	3	DryWt	ng/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	OctClDiBzFuran	0.0336	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.0261	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	PenClDiBzFuran	0.0222	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.404	3	DryWt	ng/kg	J

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RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	DioxinFura	TetClDiBzFuran	1.69	3	DryWt	ng/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	Clay	0.81	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	CoarseSand	3.24	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	Fine_Sand	44.3	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	Gravel	0.31	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	Med. Sand	38.1	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	Silt	2.1	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	VCoarseSand	0.51	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	GrainSize	VeryFineSand	12.7	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Aluminum	426	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Arsenic	0.27	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Barium	6.5	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Cadmium	0.008	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Chromium	0.63	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Cobalt	0.15	3	DryWt	mg/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Copper	0.8	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Lead	1.5	3	DryWt	mg/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Magnesium	94.3	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Manganese	1.96	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Mercury	0.0005	3	DryWt	mg/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Nickel	0.25	3	DryWt	mg/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Thallium	0.013	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Vanadium	0.8	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	Metals	Zinc	0.7	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	PhysChem	Carbon_org	0.141	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	PhysChem	Solids	84.3	3	WetWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	1234678HepDioxin	1.39	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	1234678HepFuran	0.118	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.0225	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.0226	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	123478HexFuran	0.111	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	123678HexDioxin	0.027	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	123678HexFuran	0.0162	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	123789HexDioxin	0.0234	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	123789HexFuran	0.0205	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.0258	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	12378PenFuran	0.154	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	234678HexFuran	0.0192	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	23478PenFuran	0.131	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	2378TetDioxin	2.2	3	DryWt	ng/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	2378TetFuran	11.7	3	DryWt	ng/kg	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	4.25	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	0.118	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	0.53	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	0.0173	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	32.5	3	DryWt	ng/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	0.229	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.0258	3	DryWt	ng/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	0.248	3	DryWt	ng/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	2.2	3	DryWt	ng/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	22.8	3	DryWt	ng/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	Clay	2.23	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	CoarseSand	2.17	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	Fine_Sand	50.1	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	Gravel	0.92	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	Med. Sand	22	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	Silt	4.16	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	VCoarseSand	0.54	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	GrainSize	VeryFineSand	15.2	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Aluminum	663	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Arsenic	0.64	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Barium	13.5	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Cadmium	0.027	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Chromium	1.71	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Cobalt	0.7	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Copper	0.9	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Lead	1.5	3	DryWt	mg/kg	U
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Magnesium	241	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Manganese	5.19	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Mercury	0.002	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Nickel	0.6	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Thallium	0.034	3	DryWt	mg/kg	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Vanadium	1.3	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	Metals	Zinc	1.5	3	DryWt	mg/kg	J
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	PhysChem	Carbon_org	0.0765	3	DryWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	PhysChem	Solids	84	3	WetWt	percent	
RI_Soil	SJTS020	SJTS020	3216113	13858420	2/11/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	1234678HepDioxin	5.52	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	1234678HepFuran	0.909	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	1234789HepFuran	0.18	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	123478HexDioxin	0.0249	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	123478HexFuran	0.647	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	123678HexDioxin	0.035	3	DryWt	ng/kg	U

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	123678HexFuran	0.208	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	123789HexDioxin	0.253	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	123789HexFuran	0.0149	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	12378PenDioxin	0.0248	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	12378PenFuran	0.35	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	234678HexFuran	0.0787	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	23478PenFuran	0.297	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	2378TetDioxin	2.91	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	2378TetFuran	10.7	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	HpClDiBzDioxin	19.5	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	HpClDiBzFuran	1.09	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	HxClDiBzDioxin	5.23	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	HxClDiBzFuran	1.57	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	OctClDiBzDioxin	162	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	OctClDiBzFuran	2.8	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.199	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	PenClDiBzFuran	0.585	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	TetClDiBzDioxin	3.84	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	DioxinFura	TetClDiBzFuran	21.7	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	Clay	5.92	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	CoarseSand	5.03	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	Fine_Sand	30.3	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	Gravel	0.72	2	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	Med. Sand	25.9	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	Silt	11.8	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	VCoarseSand	1.08	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	GrainSize	VeryFineSand	17.6	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Aluminum	930	2	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Arsenic	0.5	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Barium	15.2	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Cadmium	0.0195	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Chromium	1.2	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Cobalt	2.1	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Copper	1.5	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Lead	3.3	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Magnesium	218	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Manganese	32.8	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Mercury	0.003	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Nickel	1.3	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Thallium	0.023	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Vanadium	2.55	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	Metals	Zinc	58	2	DryWt	mg/kg	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	PhysChem	Carbon_org	0.152	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	PhysChem	Solids	89.2	3	WetWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	1234678HepDioxin	17.7	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	1234678HepFuran	1.41	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.222	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.0775	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	123478HexFuran	0.675	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	123678HexDioxin	0.106	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	123678HexFuran	0.194	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	123789HexDioxin	0.086	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	123789HexFuran	0.1	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.076	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	12378PenFuran	0.363	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	234678HexFuran	0.097	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	23478PenFuran	0.0635	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	2378TetDioxin	2.44	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	2378TetFuran	10.3	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	40.1	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	3.95	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	2.99	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	1.38	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	345	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	6.88	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.076	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	0.956	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	2.44	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	16.2	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	Clay	3.47	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	CoarseSand	4.79	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	Fine_Sand	33.7	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	Gravel	2.43	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	Med. Sand	27	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	Silt	10.1	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	VCoarseSand	0.82	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	GrainSize	VeryFineSand	18	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Aluminum	837	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Arsenic	1.02	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Barium	12.4	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Cadmium	0.018	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Chromium	1.51	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Cobalt	1.35	3	DryWt	mg/kg	J

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Copper	1.05	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Lead	3	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Magnesium	210	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Manganese	28.4	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Mercury	0.003	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Nickel	1.33	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Thallium	0.023	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Vanadium	3.05	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	Metals	Zinc	4.7	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	PhysChem	Carbon_org	0.158	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	PhysChem	Solids	88.6	3	WetWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	1234678HepDioxin	12.6	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	1234678HepFuran	1.27	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	1234789HepFuran	0.168	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	123478HexDioxin	0.0595	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	123478HexFuran	0.603	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	123678HexDioxin	0.0815	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	123678HexFuran	0.581	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	123789HexDioxin	0.584	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	123789HexFuran	0.154	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	12378PenDioxin	0.0745	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	12378PenFuran	0.106	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	234678HexFuran	0.979	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	23478PenFuran	0.677	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	2378TetDioxin	1.79	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	2378TetFuran	7.1	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	HpClDiBzDioxin	33.1	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	HpClDiBzFuran	3.34	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	HxClDiBzDioxin	4.78	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	HxClDiBzFuran	12.2	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	OctClDiBzDioxin	254	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	OctClDiBzFuran	3.71	3	DryWt	ng/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	PenClDiBzDioxin	0.0745	3	DryWt	ng/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	PenClDiBzFuran	30.9	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	TetClDiBzDioxin	2.14	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	DioxinFura	TetClDiBzFuran	25.6	3	DryWt	ng/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	Clay	6.1	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	CoarseSand	6.53	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	Fine_Sand	13.5	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	Gravel	39.5	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	Med. Sand	13.1	3	DryWt	percent	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	Silt	8.96	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	VCoarseSand	4.57	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	GrainSize	VeryFineSand	7.58	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Aluminum	1810	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Arsenic	0.95	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Barium	30.9	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Cadmium	0.043	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Chromium	2.69	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Cobalt	1.7	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Copper	1.4	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Lead	1.5	3	DryWt	mg/kg	U
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Magnesium	2260	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Manganese	168	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Mercury	0.004	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Nickel	2.5	3	DryWt	mg/kg	J
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Thallium	0.032	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Vanadium	7	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	Metals	Zinc	6	3	DryWt	mg/kg	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	PhysChem	Carbon_org	1.64	3	DryWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	PhysChem	Solids	92.2	3	WetWt	percent	
RI_Soil	SJTS021	SJTS021	3215839	13858356	2/11/2011	30.48	60.96	SemiVolati	bs2EtHxPhthalate	90	3	DryWt	ug/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	1234678HepDioxin	194	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	1234678HepFuran	31.1	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	1234789HepFuran	2.65	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	123478HexDioxin	0.918	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	123478HexFuran	3.05	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	123678HexDioxin	6.59	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	123678HexFuran	1.05	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	123789HexDioxin	2.75	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	123789HexFuran	0.173	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	12378PenDioxin	0.346	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	12378PenFuran	0.075	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	234678HexFuran	1.92	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	23478PenFuran	0.081	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	2378TetDioxin	0.093	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	2378TetFuran	0.0985	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	HpClDiBzDioxin	345	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	HpClDiBzFuran	120	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	HxClDiBzDioxin	26.9	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	HxClDiBzFuran	43.4	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	OctClDiBzDioxin	3480	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	OctClDiBzFuran	111	3	DryWt	ng/kg	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.0815	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	PenClDiBzFuran	7.19	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.093	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	DioxinFura	TetClDiBzFuran	0.0985	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	Clay	12.8	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	CoarseSand	5	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	Fine_Sand	10.3	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	Gravel	26.9	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	Med. Sand	8.32	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	Silt	22.6	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	VCoarseSand	5.11	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	GrainSize	VeryFineSand	7.21	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Aluminum	7880	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Arsenic	2.35	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Barium	113	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Cadmium	0.101	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Chromium	8.32	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Cobalt	4.2	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Copper	6.4	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Lead	20.8	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Magnesium	1530	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Manganese	220	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Mercury	0.018	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Nickel	7.3	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Thallium	0.094	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Vanadium	19.2	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	Metals	Zinc	32.9	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	PhysChem	Carbon_org	0.716	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	PhysChem	Solids	86.2	3	WetWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	17.5	3	DryWt	ug/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	1234678HepDioxin	122	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	1234678HepFuran	19	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	1234789HepFuran	2.06	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.53	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	123478HexFuran	1.45	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	123678HexDioxin	3.73	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	123678HexFuran	0.506	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	123789HexDioxin	1.64	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	123789HexFuran	0.119	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.212	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	12378PenFuran	0.058	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	234678HexFuran	1.08	3	DryWt	ng/kg	J

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	23478PenFuran	0.059	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.077	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	2378TetFuran	0.0955	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	217	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	86	2	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	15.3	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	23.4	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	1990	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	108	3	DryWt	ng/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.471	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	1.8	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.077	3	DryWt	ng/kg	U
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	0.367	3	DryWt	ng/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	Clay	29	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	CoarseSand	4	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	Fine_Sand	7.09	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	Gravel	13	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	Med. Sand	7.01	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	Silt	30.1	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	VCoarseSand	3.74	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	GrainSize	VeryFineSand	5.6	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Aluminum	10400	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Arsenic	2.58	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Barium	146	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Cadmium	0.108	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Chromium	9.42	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Cobalt	8.6	2	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Copper	8.35	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Lead	12.6	3	DryWt	mg/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Magnesium	2040	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Manganese	473	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Mercury	0.011	3	DryWt	mg/kg	J
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Nickel	12.5	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Thallium	0.114	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Vanadium	25.4	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	Metals	Zinc	30.8	3	DryWt	mg/kg	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	PhysChem	Carbon_org	0.422	3	DryWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	PhysChem	Solids	84.2	3	WetWt	percent	
RI_Soil	SJTS022	SJTS022	3215217	13858829	2/11/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	17.5	3	DryWt	ug/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	1234678HepDioxin	190	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	1234678HepFuran	20.4	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	1234789HepFuran	1.69	3	DryWt	ng/kg	J

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RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	123478HexDioxin	1.22	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	123478HexFuran	1.48	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	123678HexDioxin	5.05	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	123678HexFuran	0.689	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	123789HexDioxin	3.01	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	123789HexFuran	0.19	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	12378PenDioxin	0.328	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	12378PenFuran	0.0625	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	234678HexFuran	1.38	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	23478PenFuran	0.068	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	2378TetDioxin	0.0665	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	2378TetFuran	0.385	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	HpClDiBzDioxin	338	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	HpClDiBzFuran	69.5	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	HxClDiBzDioxin	27.2	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	HxClDiBzFuran	26.1	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	OctClDiBzDioxin	4030	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	OctClDiBzFuran	74.4	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.328	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	PenClDiBzFuran	6.45	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.0665	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	DioxinFura	TetClDiBzFuran	1.46	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	Clay	12.8	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	CoarseSand	4.92	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	Fine_Sand	17.1	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	Gravel	16.4	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	Med. Sand	9.05	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	Silt	22.8	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	VCoarseSand	4.39	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	GrainSize	VeryFineSand	11.6	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Aluminum	5750	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Arsenic	2.59	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Barium	93	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Cadmium	0.137	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Chromium	8.85	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Cobalt	3.2	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Copper	7.6	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Lead	34.4	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Magnesium	1200	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Manganese	154	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Mercury	0.016	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Nickel	5.3	3	DryWt	mg/kg	

Unvalidated

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Thallium	0.083	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Vanadium	15.1	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	Metals	Zinc	39.3	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	PhysChem	Carbon_org	0.64	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	PhysChem	Solids	86.3	3	WetWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	35	3	DryWt	ug/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	1234678HepDioxin	159	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	1234678HepFuran	16.9	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	1234789HepFuran	1.07	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.602	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	123478HexFuran	1.27	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	123678HexDioxin	4.78	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	123678HexFuran	0.633	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	123789HexDioxin	2.65	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	123789HexFuran	0.069	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.372	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	12378PenFuran	0.319	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	234678HexFuran	0.653	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	23478PenFuran	0.437	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.0234	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	2378TetFuran	0.74	2	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	293	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	63.8	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	25.6	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	27.9	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	4750	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	76	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.511	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	8.49	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.596	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	2.92	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	Clay	11.1	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	CoarseSand	5.53	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	Fine_Sand	20.8	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	Gravel	16.5	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	Med. Sand	9.31	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	Silt	22.1	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	VCoarseSand	4.27	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	GrainSize	VeryFineSand	11.1	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Aluminum	4870	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Arsenic	1.63	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Barium	74.5	3	DryWt	mg/kg	

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Cadmium	0.082	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Chromium	5.61	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Cobalt	2.3	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Copper	5.1	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Lead	27.2	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Magnesium	1090	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Manganese	112	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Mercury	0.012	3	DryWt	mg/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Nickel	4.1	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Thallium	0.069	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Vanadium	11.4	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	Metals	Zinc	22.6	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	PhysChem	Carbon_org	0.522	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	PhysChem	Solids	87.2	3	WetWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	35	3	DryWt	ug/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	1234678HepDioxin	210	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	1234678HepFuran	16.3	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	1234789HepFuran	1	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	123478HexDioxin	0.645	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	123478HexFuran	1.1	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	123678HexDioxin	4.41	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	123678HexFuran	0.482	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	123789HexDioxin	2.65	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	123789HexFuran	0.0399	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	12378PenDioxin	0.308	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	12378PenFuran	0.127	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	234678HexFuran	0.397	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	23478PenFuran	0.275	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	2378TetDioxin	0.0193	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	2378TetFuran	0.334	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	HpClDiBzDioxin	345	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	HpClDiBzFuran	66.1	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	HxClDiBzDioxin	22.3	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	HxClDiBzFuran	15	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	OctClDiBzDioxin	8040	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	OctClDiBzFuran	104	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	PenClDiBzDioxin	1.57	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	PenClDiBzFuran	6.48	3	DryWt	ng/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	TetClDiBzDioxin	0.645	3	DryWt	ng/kg	J
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	DioxinFura	TetClDiBzFuran	0.021	3	DryWt	ng/kg	U
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	Clay	11.5	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	CoarseSand	4.28	3	DryWt	percent	

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RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	Fine_Sand	17.1	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	Gravel	17.2	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	Med. Sand	7.45	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	Silt	22.2	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	VCoarseSand	5.98	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	GrainSize	VeryFineSand	11.3	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Aluminum	5660	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Arsenic	1.69	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Barium	85.4	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Cadmium	0.115	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Chromium	6.04	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Cobalt	2.6	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Copper	4.5	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Lead	21.6	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Magnesium	2110	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Manganese	159	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Mercury	0.057	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Nickel	4.8	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Thallium	0.153	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Vanadium	13.2	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	Metals	Zinc	23.7	3	DryWt	mg/kg	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	PhysChem	Carbon_org	0.81	3	DryWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	PhysChem	Solids	86.7	3	WetWt	percent	
RI_Soil	SJTS023	SJTS023	3215145	13858688	2/11/2011	30.48	57.912	SemiVolati	bs2EtHxPhthalate	26	3	DryWt	ug/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	1234678HepDioxin	24.6	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	1234678HepFuran	1.18	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	1234789HepFuran	0.0486	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	123478HexDioxin	0.395	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	123478HexFuran	0.031	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	123678HexDioxin	0.776	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	123678HexFuran	0.0307	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	123789HexDioxin	0.79	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	123789HexFuran	0.03	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	12378PenDioxin	0.0347	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	12378PenFuran	0.0265	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	234678HexFuran	0.0346	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	23478PenFuran	0.0306	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	2378TetDioxin	0.031	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	2378TetFuran	0.292	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	HpClDiBzDioxin	61.4	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	HpClDiBzFuran	3.64	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	HxClDiBzDioxin	9.49	3	DryWt	ng/kg	

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RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	HxClDiBzFuran	0.031	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	OctClDiBzDioxin	1350	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	OctClDiBzFuran	4.19	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.0347	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	PenClDiBzFuran	1.05	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.031	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	DioxinFura	TetClDiBzFuran	0.223	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	Clay	12.4	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	CoarseSand	11	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	Fine_Sand	10.9	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	Gravel	15.1	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	Med. Sand	12.7	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	Silt	24	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	VCoarseSand	4.93	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	GrainSize	VeryFineSand	10.8	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Aluminum	10000	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Arsenic	3.24	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Barium	87.4	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Cadmium	0.086	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Chromium	11.7	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Cobalt	6	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Copper	9.9	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Lead	8.7	3	DryWt	mg/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Magnesium	2150	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Manganese	281	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Mercury	0.012	3	DryWt	mg/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Nickel	12.5	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Thallium	0.068	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Vanadium	24.1	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	Metals	Zinc	32	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	PhysChem	Carbon_org	0.432	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	PhysChem	Solids	80.5	3	WetWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	17.5	3	DryWt	ug/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	1234678HepDioxin	23.9	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	1234678HepFuran	0.618	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	1234789HepFuran	0.058	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.285	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	123478HexFuran	0.0357	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	123678HexDioxin	0.472	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	123678HexFuran	0.035	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	123789HexDioxin	0.781	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	123789HexFuran	0.0398	3	DryWt	ng/kg	U

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Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.0359	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	12378PenFuran	0.0297	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	234678HexFuran	0.0397	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	23478PenFuran	0.0306	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.0448	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	2378TetFuran	0.0498	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	58.8	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	1.56	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	6.45	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	0.917	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	2290	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	1.73	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.0359	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	0.0306	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.0448	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	0.0498	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	Clay	39.1	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	CoarseSand	4.56	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	Fine_Sand	4.86	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	Gravel	3	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	Med. Sand	4.58	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	Silt	32.1	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	VCoarseSand	2.33	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	GrainSize	VeryFineSand	8.44	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Aluminum	12200	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Arsenic	3.33	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Barium	156	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Cadmium	0.126	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Chromium	11.8	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Cobalt	9	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Copper	12.1	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Lead	22.6	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Magnesium	2890	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Manganese	510	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Mercury	0.014	3	DryWt	mg/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Nickel	16	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Thallium	0.168	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Vanadium	32.1	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	Metals	Zinc	43	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	PhysChem	Carbon_org	0.19	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	PhysChem	Solids	80.1	3	WetWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	1234678HepDioxin	34.6	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	1234678HepFuran	0.673	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	1234789HepFuran	0.068	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	123478HexDioxin	0.353	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	123478HexFuran	0.0343	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	123678HexDioxin	0.541	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	123678HexFuran	0.0345	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	123789HexDioxin	0.93	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	123789HexFuran	0.0386	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	12378PenDioxin	0.0326	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	12378PenFuran	0.0306	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	234678HexFuran	0.038	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	23478PenFuran	0.0314	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	2378TetDioxin	0.042	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	2378TetFuran	0.27	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	HpClDiBzDioxin	109	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	HpClDiBzFuran	0.673	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	HxClDiBzDioxin	13	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	HxClDiBzFuran	0.0343	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	OctClDiBzDioxin	4290	3	DryWt	ng/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	OctClDiBzFuran	1.62	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	PenClDiBzDioxin	0.317	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	PenClDiBzFuran	0.347	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	TetClDiBzDioxin	0.042	3	DryWt	ng/kg	U
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	DioxinFura	TetClDiBzFuran	0.394	3	DryWt	ng/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	Clay	23.9	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	CoarseSand	8.35	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	Fine_Sand	4.58	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	Gravel	21.6	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	Med. Sand	5.77	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	Silt	26.2	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	VCoarseSand	3.23	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	GrainSize	VeryFineSand	5.85	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Aluminum	11000	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Arsenic	3.28	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Barium	101	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Cadmium	0.129	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Chromium	12	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Cobalt	6.5	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Copper	9.3	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Lead	21.4	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Magnesium	2200	3	DryWt	mg/kg	

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RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Manganese	306	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Mercury	0.012	3	DryWt	mg/kg	J
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Nickel	12	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Thallium	0.162	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Vanadium	27.4	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	Metals	Zinc	36.7	3	DryWt	mg/kg	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	PhysChem	Carbon_org	0.368	3	DryWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	PhysChem	Solids	81	3	WetWt	percent	
RI_Soil	SJTS024	SJTS024	3215289	13858685	2/11/2011	30.48	60.96	SemiVolati	bs2EtHxPhthalate	3.5	3	DryWt	ug/kg	U
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	1234678HepDioxin	297	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	1234678HepFuran	93.2	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	1234789HepFuran	19.8	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	123478HexDioxin	2.21	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	123478HexFuran	29.2	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	123678HexDioxin	10.8	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	123678HexFuran	11.2	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	123789HexDioxin	7.57	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	123789HexFuran	0.868	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	12378PenDioxin	1.36	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	12378PenFuran	6.05	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	234678HexFuran	5.2	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	23478PenFuran	7.68	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	2378TetDioxin	0.785	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	2378TetFuran	24.1	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	HpClDiBzDioxin	603	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	HpClDiBzFuran	185	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	HxClDiBzDioxin	83.3	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	HxClDiBzFuran	86.4	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	OctClDiBzDioxin	3430	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	OctClDiBzFuran	700	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	PenClDiBzDioxin	11	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	PenClDiBzFuran	60.2	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	TetClDiBzDioxin	8.07	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	DioxinFura	TetClDiBzFuran	127	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	Clay	2.61	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	CoarseSand	11.3	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	Fine_Sand	13.3	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	Gravel	19.1	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	Med. Sand	15.3	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	Silt	23.3	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	VCoarseSand	3.3	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	GrainSize	VeryFineSand	8.4	3	DryWt	percent	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	PhysChem	Carbon_org	3.3	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	PhysChem	Solids	79.4	3	WetWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	990	3	DryWt	ug/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	1234678HepDioxin	413	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	1234678HepFuran	44.2	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	1234789HepFuran	9.72	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	123478HexDioxin	2.04	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	123478HexFuran	16.2	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	123678HexDioxin	12.8	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	123678HexFuran	6.12	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	123789HexDioxin	8.34	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	123789HexFuran	0.581	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	12378PenDioxin	2.58	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	12378PenFuran	6.82	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	234678HexFuran	3.6	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	23478PenFuran	6.24	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	2378TetDioxin	1.23	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	2378TetFuran	44.9	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	835	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	109	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	94.7	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	54.8	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	4140	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	392	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	9.53	3	DryWt	ng/kg	J
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	36.6	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.204	3	DryWt	ng/kg	U
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	137	3	DryWt	ng/kg	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	Clay	1.83	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	CoarseSand	12.8	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	Fine_Sand	5.92	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	Gravel	43.3	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	Med. Sand	7.2	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	Silt	11.2	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	VCoarseSand	8.72	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	GrainSize	VeryFineSand	4.73	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	PhysChem	Carbon_org	15.6	3	DryWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	PhysChem	Solids	75.6	3	WetWt	percent	
RI_Soil	SJTS025	SJTS025	3215073	13858547	2/12/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	4700	3	DryWt	ug/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	1234678HepDioxin	93	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	1234678HepFuran	13.5	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	1234789HepFuran	1.53	3	DryWt	ng/kg	J

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RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	123478HexDioxin	0.545	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	123478HexFuran	1.89	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	123678HexDioxin	2.96	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	123678HexFuran	0.671	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	123789HexDioxin	1.7	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	123789HexFuran	0.074	3	DryWt	ng/kg	U
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	12378PenDioxin	0.28	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	12378PenFuran	0.223	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	234678HexFuran	0.307	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	23478PenFuran	0.42	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	2378TetDioxin	0.175	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	2378TetFuran	0.487	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	HpClDiBzDioxin	185	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	HpClDiBzFuran	48.4	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	HxClDiBzDioxin	17.2	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	HxClDiBzFuran	18.8	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	OctClDiBzDioxin	3310	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	OctClDiBzFuran	52.9	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	PenClDiBzDioxin	0.515	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	PenClDiBzFuran	4.97	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	TetClDiBzDioxin	0.346	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	DioxinFura	TetClDiBzFuran	1.79	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	Clay	15.2	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	CoarseSand	4.3	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	Fine_Sand	8.27	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	Gravel	31.2	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	Med. Sand	6.97	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	Silt	27.5	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	VCoarseSand	4.49	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	GrainSize	VeryFineSand	6.26	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	PhysChem	Carbon_org	0.474	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	PhysChem	Solids	77.8	3	WetWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	17.5	3	DryWt	ug/kg	U
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	1234678HepDioxin	142	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	1234678HepFuran	17.2	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	1234789HepFuran	1.37	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	123478HexDioxin	0.563	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	123478HexFuran	2.28	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	123678HexDioxin	3.7	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	123678HexFuran	0.85	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	123789HexDioxin	1.71	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	123789HexFuran	0.215	3	DryWt	ng/kg	U

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RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	12378PenDioxin	0.295	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	12378PenFuran	0.0795	3	DryWt	ng/kg	U
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	234678HexFuran	1.17	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	23478PenFuran	0.445	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.268	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	2378TetFuran	1.18	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	279	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	57.2	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	20.6	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	22.9	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	2320	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	77.4	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	0.999	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	6.02	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	0.507	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	0.715	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	Clay	12.1	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	CoarseSand	3.62	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	Fine_Sand	7.4	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	Gravel	33.4	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	Med. Sand	6.69	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	Silt	22.8	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	VCoarseSand	3.97	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	GrainSize	VeryFineSand	5.7	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	PhysChem	Carbon_org	1.24	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	PhysChem	Solids	84.7	3	WetWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	62	3	DryWt	ug/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	1234678HepDioxin	222	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	1234678HepFuran	31.6	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	1234789HepFuran	2.4	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	123478HexDioxin	1.22	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	123478HexFuran	3.6	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	123678HexDioxin	7.38	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	123678HexFuran	1.96	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	123789HexDioxin	4.94	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	123789HexFuran	0.0711	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	12378PenDioxin	1.05	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	12378PenFuran	0.89	2	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	234678HexFuran	2.17	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	23478PenFuran	1.29	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	2378TetDioxin	0.574	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	2378TetFuran	2.46	3	DryWt	ng/kg	

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study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	HpClDiBzDioxin	510	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	HpClDiBzFuran	90.5	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	HxClDiBzDioxin	48.2	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	HxClDiBzFuran	35.6	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	OctClDiBzDioxin	3920	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	OctClDiBzFuran	160	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	PenClDiBzDioxin	3.25	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	PenClDiBzFuran	16.4	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	TetClDiBzDioxin	1.94	3	DryWt	ng/kg	J
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	DioxinFura	TetClDiBzFuran	10.6	3	DryWt	ng/kg	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	Clay	8.48	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	CoarseSand	5.56	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	Fine_Sand	9.05	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	Gravel	27.3	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	Med. Sand	9.8	2	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	Silt	26.1	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	VCoarseSand	5.9	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	GrainSize	VeryFineSand	8.41	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	PhysChem	Carbon_org	1.25	3	DryWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	PhysChem	Solids	83.2	3	WetWt	percent	
RI_Soil	SJTS026	SJTS026	3215214	13858553	2/12/2011	30.48	60.96	SemiVolati	bs2EtHxPhthalate	155	3	DryWt	ug/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	1234678HepDioxin	233	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	1234678HepFuran	76.2	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	1234789HepFuran	16.3	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	123478HexDioxin	2.5	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	123478HexFuran	26.5	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	123678HexDioxin	11.5	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	123678HexFuran	9.65	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	123789HexDioxin	7.92	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	123789HexFuran	0.715	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	12378PenDioxin	1.96	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	12378PenFuran	4.91	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	234678HexFuran	4.42	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	23478PenFuran	6.17	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	2378TetDioxin	0.823	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	2378TetFuran	12.5	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	HpClDiBzDioxin	568	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	HpClDiBzFuran	156	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	HxClDiBzDioxin	90.6	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	HxClDiBzFuran	93.4	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	OctClDiBzDioxin	3680	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	OctClDiBzFuran	543	3	DryWt	ng/kg	

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RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	PenClDiBzDioxin	17.7	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	PenClDiBzFuran	64.1	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	TetClDiBzDioxin	8.25	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	DioxinFura	TetClDiBzFuran	62.2	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	Clay	7.58	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	CoarseSand	5.19	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	Fine_Sand	9.64	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	Gravel	20.9	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	Med. Sand	8.62	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	Silt	29.4	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	VCoarseSand	7.63	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	GrainSize	VeryFineSand	8.72	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	PhysChem	Carbon_org	1.57	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	PhysChem	Solids	83.7	3	WetWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	140	3	DryWt	ug/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	1234678HepDioxin	238	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	1234678HepFuran	69.1	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	1234789HepFuran	12.9	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	123478HexDioxin	1.96	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	123478HexFuran	21.5	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	123678HexDioxin	9.52	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	123678HexFuran	8.25	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	123789HexDioxin	6.9	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	123789HexFuran	0.522	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	12378PenDioxin	1.53	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	12378PenFuran	4.16	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	234678HexFuran	6.69	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	23478PenFuran	5.16	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.684	3	DryWt	ng/kg	J
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	2378TetFuran	9.5	2	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	563	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	139	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	75.6	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	81.9	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	3860	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	457	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	10.5	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	58.6	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	3.67	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	39	3	DryWt	ng/kg	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	Clay	7.07	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	CoarseSand	5.92	3	DryWt	percent	

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RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	Fine_Sand	11	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	Gravel	12.6	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	Med. Sand	10.1	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	Silt	31.2	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	VCoarseSand	8.91	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	GrainSize	VeryFineSand	10.8	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	PhysChem	Carbon_org	1.26	3	DryWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	PhysChem	Solids	80.2	3	WetWt	percent	
RI_Soil	SJTS027	SJTS027	3215051	13858441	2/12/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	150	3	DryWt	ug/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	1234678HepDioxin	187	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	1234678HepFuran	23.1	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	1234789HepFuran	1.14	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	123478HexDioxin	1.26	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	123478HexFuran	4.49	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	123678HexDioxin	5.18	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	123678HexFuran	1	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	123789HexDioxin	3.99	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	123789HexFuran	0.0708	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	12378PenDioxin	0.614	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	12378PenFuran	0.821	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	234678HexFuran	1.19	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	23478PenFuran	1.03	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	2378TetDioxin	0.198	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	2378TetFuran	2.91	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	HpClDiBzDioxin	330	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	HpClDiBzFuran	43.9	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	HxClDiBzDioxin	35.9	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	HxClDiBzFuran	24.1	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	OctClDiBzDioxin	6420	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	OctClDiBzFuran	142	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	PenClDiBzDioxin	3.16	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	PenClDiBzFuran	18.6	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	TetClDiBzDioxin	1.28	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	DioxinFura	TetClDiBzFuran	10.7	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	Clay	6.91	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	CoarseSand	4.3	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	Fine_Sand	7.32	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	Gravel	37.8	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	Med. Sand	6.77	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	Silt	24	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	VCoarseSand	4.53	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	GrainSize	VeryFineSand	7.51	3	DryWt	percent	

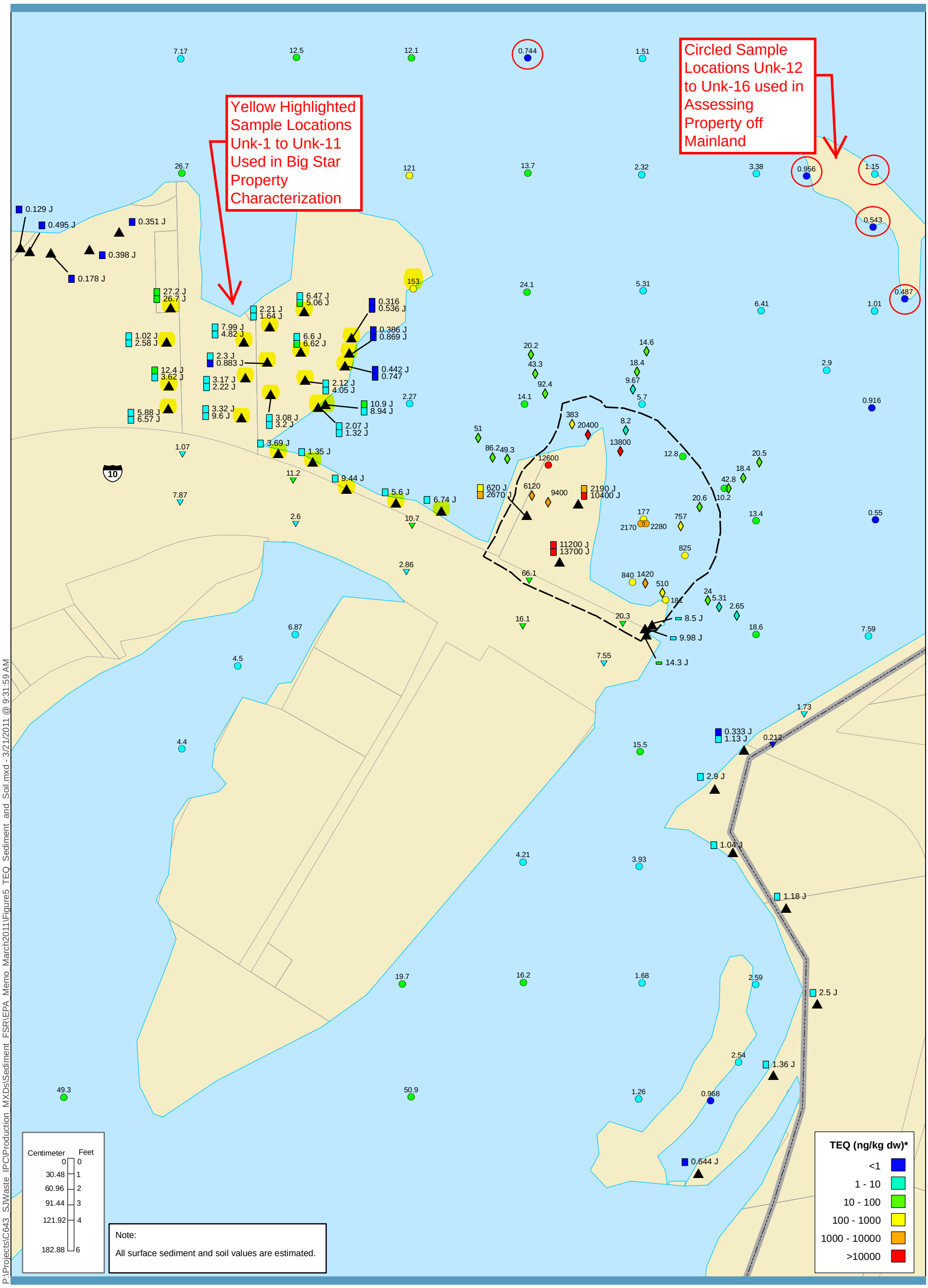
Unvalidated

Table 2. Unvalidated Chemistry Data for Soils Collected on the Big Star Property

study_id	location_id	study_loc_id	x	y	sample_date	upper_depth cm	lower_depth cm	chem_class	analyte	value	sig_figs	meas_basis	units	qualifiers
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	PhysChem	Carbon_org	1.42	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	PhysChem	Solids	86.7	3	WetWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	0	15.24	SemiVolati	bs2EtHxPhthalate	160	3	DryWt	ug/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	1234678HepDioxin	701	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	1234678HepFuran	45.8	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	1234789HepFuran	5	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	123478HexDioxin	1.9	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	123478HexFuran	14.6	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	123678HexDioxin	16.2	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	123678HexFuran	5.16	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	123789HexDioxin	9.5	2	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	123789HexFuran	0.181	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	12378PenDioxin	1.21	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	12378PenFuran	2.69	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	234678HexFuran	6.39	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	23478PenFuran	6.02	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	2378TetDioxin	0.405	3	DryWt	ng/kg	J
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	2378TetFuran	9.7	2	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzDioxin	948	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	HpClDiBzFuran	100	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzDioxin	103	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	HxClDiBzFuran	64.5	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzDioxin	14300	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	OctClDiBzFuran	220	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzDioxin	8.05	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	PenClDiBzFuran	50.1	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzDioxin	3.46	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	DioxinFura	TetClDiBzFuran	48.4	3	DryWt	ng/kg	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	Clay	11.5	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	CoarseSand	4.87	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	Fine_Sand	10.8	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	Gravel	22	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	Med. Sand	7.85	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	Silt	29	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	VCoarseSand	4.7	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	GrainSize	VeryFineSand	10.7	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	PhysChem	Carbon_org	1.12	3	DryWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	PhysChem	Solids	81.7	3	WetWt	percent	
RI_Soil	SJTS028	SJTS028	3215081	13858113	2/12/2011	15.24	30.48	SemiVolati	bs2EtHxPhthalate	330	3	DryWt	ug/kg	J

Unvalidated

Appendix F: Third Party Analytical Results For Sample Locations Sjts001 To Sjts013 And Unknown Sample Ids For Sample Locations Unk-1 To Unk-16



P:\Projects\C643_SJWaste_IPC\Production_MXDs\Sediment_FSR\EPA_Memo_March2011\Figure5_TEQ_Sediment_and_Soil.mxd - 3/21/2011 @ 9:31:59 AM

ANCHOR QEA

integral consulting inc

0 400
Scale in Feet

Preliminary Site Perimeter
Original (1966) Perimeter of the Northern Impoundments
Parcel Boundary
Core Location

RI Sediment Station
TCRA Sediment Station
TCRA Soil Station

*TEQ = toxicity equivalent for dioxins/furans using van den Berg, et al. 2006 for mammals (non detect =1/2 detection limit)

Figure 5
TEQ Concentrations (ng/kg dw) in 2010 Surface Sediment and Soil Samples on the Site Collected for the TCRA and the RI
SJRWP Superfund/MIMC and IPC

Appendix G: Public Health Assessment – Public Comment Draft

APPENDIX H: SITE RECONNAISSANCE PHOTOGRAPHS

Photo 1: A north facing view of the Site. Photo taken at northwest corner of Site.

Photo 2: A northwest facing view of the Site. Photo taken at northeast corner of Site.

Photo 3: A northeast facing view of the dock area of the Site. Photo taken at the southwest corner of warehouse building.

Photo 4: A west facing view of the seven pipeline markers observed at the northwest corner of the Site.

Photo 5: A north facing view of the pipeline valve cluster observed on the property at the northwest corner of the Site.

Photo 6: A west facing view of the north adjoining property, Interstate 10, and the Interstate 10 service road.

SITE RECONNAISSANCE PHOTOGRAPHS

Project: Phase I ESA Big Star Property 18001 I-10 Channelview, Harris County, Texas	**Tolunay-Wong Engineers, Inc.** **Houston, Texas**	Client: San Jacinto River Fleet, LLC Channelview, Texas	Project No.: 11.12.014

Photo 7: A north facing view of the San Jacinto River and adjacent properties on the east side of the river.

Photo 8: An east facing view of the east adjoining property, the San Jacinto River Waste Pits Superfund site.

Photo 9: A view of the sign at the entrance of the San Jacinto Waste Pits Superfund site.

Photo 10: A northwest facing view of the west adjoining property, undeveloped land.

Photo 11: A south facing view of the ship building facilities located on the south side of Interstate 10 and south of the Site.

SITE RECONNAISSANCE PHOTOGRAPHS

Project: Phase I ESA Big Star Property 18001 I-10 Channelview, Harris County, Texas	**Tolunay-Wong Engineers, Inc.** **Houston, Texas**	Client: San Jacinto River Fleet, LLC Channelview, Texas	Project No.: 11.12.014

APPENDIX I: TCEQ CORRESPONDENCE

Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Mark R. Vickery, P.G., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

August 15, 2008

CERTIFIED MAIL
91 7108 2133 3935 2076 9100

Mr. Jay Roberts
Houston International Terminal
2435 E. Broadway
Pearland, Texas 77581

Re: Approval of Closure Report – Release Not Subject to TRRP
Response to TCEQ's letter dated June 20, 2008, regarding Closure Plan for Houston International Terminal (Response to Comments) dated August 6, 2008.
Houston International Terminal, 18001 I-10 East, Channelview, Texas
TCEQ Solid Waste Registration (SWR) No. T2278

Dear Mr. Roberts:

The Texas Commission on Environmental Quality (TCEQ) has reviewed the above referenced submittal dated August 6, 2008. The Response to Comments and Closure Plan for the Houston International Terminal requests the closure/inactivation of the facility and the closure of the 12 oil tanks associated with the facility. According to the Response to Comments, the 12 oil tanks were removed from a concrete floor containment area by Houston International Terminal. In addition, the steel, bottom sediments, recovered oil and concrete associated with the tanks removal at the site, were recycled at permitted facilities.

The closure report documented that concentrations of COCs in soils are below the action levels established by the TCEQ guidance, *Determining Which Releases are Subject to TRRP*, dated October 21, 2003. Based on the information contained in the report and other information available to staff, the TCEQ accepts the closure of these units and your facility inactivation/closure request. No further action is required under 30 Texas Administrative Code (TAC) §335.8.

Please be aware that it is the continuing obligation of persons associated with a site to ensure that municipal hazardous waste and industrial solid waste are managed in a manner which does not cause the discharge or imminent threat of discharge of waste into or adjacent to waters in the state, a nuisance, or the endangerment of the public health and welfare as required by 30 TAC §335.4. If the

activities described in the report fail to comply with these requirements, please take any necessary and authorized action to correct such conditions. A TCEQ field inspector may conduct an inspection of the site to determine compliance with the regulations.

Questions concerning this letter should be directed to me at (512) 239- 6226. When responding by mail, please submit an original and one copy of all correspondence and reports to the TCEQ Remediation Division at Mail Code MC-127 with an additional copy submitted to the local TCEQ Region Office. The information in the reference block should be included in all submittals.

Sincerely,

Maria Sifuentes

Maria Sifuentes, Project Manager
Team 2, Environmental Cleanup Section I
Remediation Division
Texas Commission on Environmental Quality

MS/hmw

cc: Waste Program Manager, TCEQ Region 12 Office, Houston
TCEQ Registration and Reporting Section, MC 129

TCEQ

Protecting Texas by Reducing and Preventing Pollution

FAX TRANSMITTAL

DATE: December 19, 2008 NUMBER OF PAGES *(including this cover sheet)*: 5

TO:

Name	Robert E. "Robin" Morse, III
Organization	Crain Caton & James
FAX Number	(713) 658-1921

FROM: **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

Name	Mary R. Risner
Division/Region	Litigation
Telephone Number	(512) 239-0600
FAX Number	(512) 239-3434

NOTES:

Houston International, Inc.; TCEQ Docket No. 2006-1858-IHW-E

Executive Director's Notice of Non-Suit and Withdrawal of the Executive Director's Preliminary Report and Petition

Buddy Garcia, *Chairman*
Larry R. Soward, *Commissioner*
Bryan W. Shaw, Ph.D., *Commissioner*
Mark R. Vickery, P.G., *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 19, 2008

LaDonna Castañuela
Texas Commission on Environmental Quality
Office of the Chief Clerk
P.O. Box 13087, MC 105
Austin, Texas 78711-3087

Re: Houston International Terminal
TCEQ Docket No. 2006-1858-IHW-E

Dear Ms. Castañuela:

Enclosed for filing is the original "Executive Director's Notice of Non-Suit." If you have any questions or concerns please contact me at (512) 239-6224.

Sincerely,

Mary R Risner

Mary R. Risner
Attorney
Litigation Division

Enclosure

cc: Mr. Robert E. Morse, III, Crain Caton & James, 17th Floor, Five Houston Center, 1401 McKinney Street, Houston, TX 77010-4035
Blas Coy, Office of the Public Interest Counsel, TCEQ, MC 105

TCEQ DOCKET NO. 2006-1858-IHW-E

IN THE MATTER OF AN ENFORCEMENT ACTION AGAINST HOUSTON INTERNATIONAL TERMINAL, INC.; RN100679075	§ § § § § §	**BEFORE THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**

EXECUTIVE DIRECTOR'S NOTICE OF NON-SUIT AND WITHDRAWAL OF THE EXECUTIVE DIRECTOR'S PRELIMINARY REPORT AND PETITION

The Executive Director of the Texas Commission on Environmental Quality ("Commission" or "TCEQ"), by and through a representative of the Litigation Division, files this Notice of Non-suit and Withdrawal of the Executive Director's Preliminary Report and Petition pursuant to Tex. Rules of Civil Procedure, Rule162, in the enforcement matter against Houston International Terminal, Inc.

The Executive Director's Preliminary Report and Petition ("EDPRP") in this matter was filed with the Chief Clerk of the Commission on February 15, 2007. On the same date, a true and correct copy of the EDPRP was mailed via first class mail and via certified mail to Houston International Terminal Inc. An answer was filed by Houston International Terminal, Inc. on March 9, 2007.

No evidence has been heard on this matter. All parties are placed on notice that this non-suit is effective upon filing.

The Executive Director hereby gives notice to the Texas Commission on Environmental Quality, Houston International Terminal, Inc., and the Public Interest Counsel that the Executive Director is taking a non-suit and hereby withdraws the EDPRP.

Respectfully submitted,

Texas Commission on Environmental Quality

Mark R. Vickery, P.G.
Executive Director

Stephanie Bergeron Perdue, Deputy Director
Office of Legal Services

Kathleen C. Decker, Division Director
Litigation Division

by Mary R Risner

Mary R. Risner
State Bar of Texas No. 792212
Litigation Division, MC 175
P.O. Box 13087
Austin, Texas 78711-3087
(512) 239-3400
(512) 239-3434 (FAX)

CERTIFICATE OF SERVICE

I hereby certify that on this 19th day of December, 2008, the original of the foregoing "Executive Director's Notice of Non-suit and Withdrawal of the Executive Director's Preliminary Report and Petition" ("Non-suit") was filed with the Chief Clerk, Texas Commission on Environmental Quality, Austin, Texas.

I further certify that on this day a true and correct copy of the foregoing Non-suit was mailed via Certified Mail Return Receipt Requested and by Fax to:

Robert E. "Robin" Morse, III
Crain Caton & James
17th Floor
Five Houston Center
1401 McKinney Street
Houston, TX 77010-4035

Article No. 91 7108 2133 3935 2310 6179
Fax: (713) 658-1921

I further certify that on this day a true and correct copy of the foregoing Non-suit was hand-delivered to the Office of the Public Interest Counsel, Texas Commission on Environmental Quality, Austin, Texas.

Mary R Risner

Mary R. Risner
Attorney
Litigation Division
Texas Commission on Environmental Quality