

the vicinity of the fire-pit, combined identification and dating analyses potentially yield a record of regional vegetation change over time. The plausibility of the assumption and the ability of the combined identification and dating analyses to yield a record of regional vegetation change over time were established at Waimānalo, O'ahu, where replacement of the native lowland forest with canoe plants brought to the islands by Polynesian settlers was underway by the mid-fifteenth century [16].

The ten fire-pits investigated in this way on Lāna'i are located on the windward and south coasts and in the central basin and plateau (fig. 12). On the windward coast, the fire-pits include one exposed on the surface at Kahalepalaoa and two other buried fire-pits identified in a backhoe excavation [11]. The two fire-pits investigated on the south coast were found during excavation of a beach sand deposit that was buried under alluvium deposited during and after ranching had destabilized the island's soils [15]. The fire-pit on the central plateau at Site 50-40-98-01984 was exposed on an eroding surface located on the outskirts of an abandoned pineapple field. In addition to the fire-pits in the central basin investigated in this report, the two fire-pits at Sites 50-40-98-01986 and -01987 were discovered beneath the plow zone of an abandoned pineapple field [13].

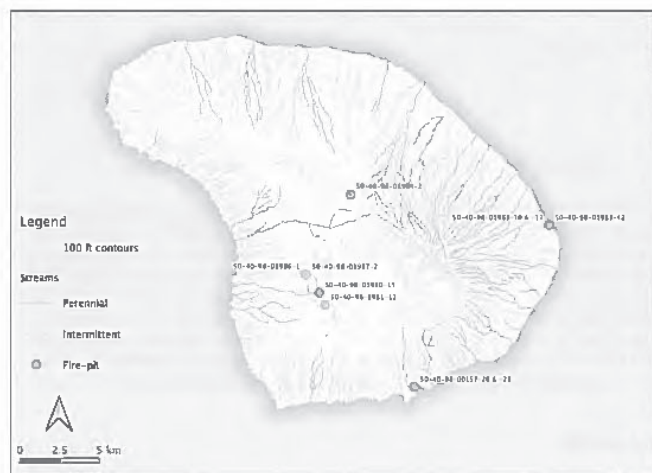


Figure 12: Location of fire-pit investigations on Lāna'i. Sources: Site 50-40-98-00157 [15]; Site 50-40-98-01980 and -01981 this report; Site 50-40-98-01983 [11]; Site 50-40-98-01984 [14]; Site 50-40-98-01986 and -01987 [13].

The calibrated ages of the individual fire-pits have already been reported [11; 13-15]. The reported dates can be used to investigate the tempo of fire-pit construction and use on Lāna'i by turning away from the estimated ages of individual fire-pits and asking instead when was the first occurrence of fire-pit construction and use, when was the second occurrence of fire-pit construction and use, etc. Posing the question in this way builds upon the event view of time used in the radiocarbon dating analysis to employ instead a substance view of time typically used to frame archaeological questions. The substance view of time focuses analysis on change, which is expressed on an absolute time scale. On present evidence, the occurrence of fire-pit construction and use on Lāna'i began in the late fifteenth century and continued into the historic period (fig. 13).

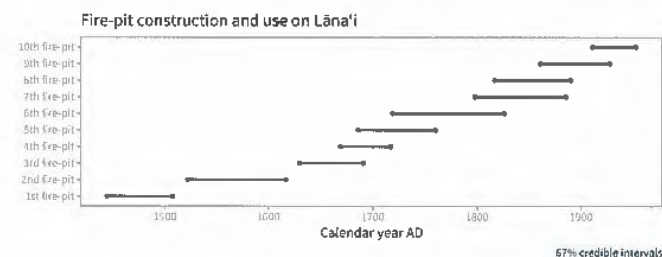


Figure 13: Occurrence of fire-pit construction and use on Lāna'i.

Identification of firewood used in the Lāna'i fire-pits indicates the prevalence into the historic period of native forest, with relatively little replacement of native species by canoe plants. This finding contrasts strongly with the documented transformation of the lowland forest at Waimānalo, where canoe plants were well established by the middle of the fifteenth century (fig. 14). At a time when most Lāna'i fire-pits were fueled exclusively with native woods, Waimānalo fire-pits regularly yield firewood assemblages dominated by canoe plants. The transformation of the lowland forest evidenced at Waimānalo started late on Lāna'i and had made relatively little progress before the island's vegetation history was radically altered during the ranching era [19].

5 Conclusion

Wood charcoal identification and dating lend support to the claim made by Hawaiian tradition that Lāna'i was settled relatively late. Current evidence from the island suggests that the first fire-pits were constructed 400-500 years after Polynesians discovered the islands. However, it is extremely unlikely that the earliest evidence for human activity on

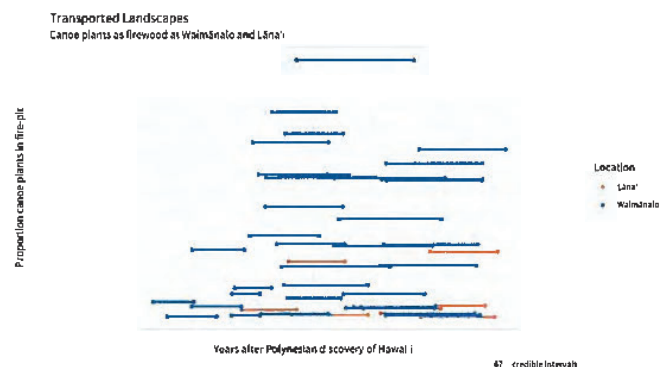


Figure 14: Canoe plants as firewood at Waimānalo and on Lānaʻi.

Lānaʻi has been identified. Most of the well dated fire-pits are from the island's interior and the dry southern coast, which are relatively unlikely locations for early settlement. A likely location for early settlement is the windward coast in the vicinity of Maunalei Valley. The combination of a perennial stream that could feed *loʻi kalo*, sand beaches, shallow water fishing grounds, and relatively easy access to Maui and Molokaʻi Islands all point to the desirability of the island's windward coast for traditional settlement. Only a few fire-pits from the windward coast of Lānaʻi have been identified and dated at Kahalepalaoa, a location that lacks the agricultural resources that would have been available at Maunalei, and would likely have been settled at a later time.

The windward Lānaʻi coastline that Hawaiians knew is today deeply buried by sediment that eroded off the mountain during and after the ranching period, when large herds of grazing herbivores wreaked havoc on the native vegetation and destabilized soils over much of the island [19]. The widespread, severe erosion of upland soils that resulted likely had the effect of sealing early cultural deposits along the windward coast under a thick blanket of sediment that serves to protect them from erosion and disturbance. In the event the windward coast of Lānaʻi is developed, one focus of historic preservation efforts should identify and recover evidence of this early settlement.

The canoe plants brought to the islands by Polynesian settlers had begun to replace native species in lowland forests by the middle of the fifteenth century at places like Waimānalo on Oʻahu. This replacement of native forest by canoe plants favored by Polynesians is referred to by geographers as a process of landscape transport in which immigrants work to create settlements that resemble those of the homeland. The process

of landscape transport appears to have had relatively little effect on Lānaʻi prior to the ranching era; fire-pits that date late in the traditional Hawaiian period and early in the historic period were fueled almost exclusively by wood from native plants that were well adapted to the island's dry conditions and were likely established in the island's primeval forests. Canoe plants are only rarely identified in fire-pits from the island—breadfruit from Kahalepalaoa, ki from Manele, and *kukui*, *ʻōhiʻa ʻai*, *ʻulu*, and *ipu* from Kaunolū are exceptions that prove the rule of native firewood on the island. In this respect, one conclusion of an early inquiry into Lānaʻi firewood at Kaunolū—that “many dryland forest taxa apparently persisted in this region until sometime after the abandonment of the Kaunolū settlement in the mid-1800’s” [1]—appears to apply more widely and likely characterizes the vegetation history of the island as a whole.

Archaeological study of the island's stone tools is at an early stage. A reduction sequence in which an initial step removed a large flake from a boulder of suitable adze rock seems to have been most common. This reduction sequence based on flakes was practiced widely in Hawaiʻi and was particularly common during production of small adzes. The Lānaʻi adze rejects sourced for the Miki Basin 200 Acre Industrial Development project were likely fashioned from local rocks, but there can be little doubt that imported adzes will be identified on the island with subsequent research. Adze rock collected from traditional Hawaiian sites in Kahikinui on Maui Island is reliably sourced to Kaunolū, so adze rock was definitely moving across the narrow channel between the islands. Additional research on Lānaʻi stands a good chance of turning up evidence for the import of adze rock from islands nearby.

The discriminant analysis framework outlined in this report indicates that the non-destructive EDXRF analysis carried out by the Hilo Geoarchaeology Laboratory is sufficiently powerful to distinguish at least two Maui Island sources and the fine-grained adze rock from Mauna Kea from Lānaʻi adze rocks. Other potential imports, from Waiʻāhole on Oʻahu, Kilauea on Hawaiʻi, and likely several other locations, will be difficult to distinguish from the local rock with EDXRF, although this situation might change once the variability of Lānaʻi adze rock is more completely known through characterization of a wider range of source locations. Even with this additional work on source locations, however, it seems likely that a two stage process will be required for a study that confidently distinguishes Lānaʻi sources from imports. Currently, there are several techniques that might yield information that would distinguish the local Lānaʻi rocks from most imports, including petrographic description of thin sections and various geochemical techniques such as WDXRF and microprobe. These more powerful techniques are all destructive in the sense that a piece of the artifact must be sacrificed to complete the analysis, are relatively expensive to undertake compared to EDXRF, and typically require an experienced geologist to interpret their results.

A ¹⁴C Dates

Beta-510703 140 ± 30
 $\delta^{13}C = 22.0\text{‰}$

Sample consists of one piece of *Sida cf. fallax* twig charcoal from Site 50-40-98-01981, Context 12. Submitted 2018-11-26. Context 12 is described as fire-pit in backhoe trench 21. It is classified as a cultural event.

Comment: *Sida cf. fallax* twig is a short-lived material. The dated material has a highly probable association with the target event, which is fire-pit use. This short-lived material is confidently associated with use of the fire-pit feature. It provides the best estimate of when the fire-pit feature was last used. The submitted sample yielded ample carbon for dating and was processed normally in the laboratory.

Beta-510704 170 ± 30
 $\delta^{13}C = 10.4\text{‰}$

Sample consists of one piece of *Euphorbia cf. celastroides* twig charcoal from Site 50-40-98-01981, Context 15. Submitted 2018-11-26. Context 15 is described as the base of a truncated fire-pit exposed in an erosion swale. It is classified as a cultural event.

Comment: *Euphorbia cf. celastroides* twig is a short-lived material. The dated material has a highly probable association with the target event, which is fire-pit use. This short-lived material is confidently associated with use of the fire-pit feature. It provides the best estimate of when the fire-pit feature was last used. The submitted sample yielded ample carbon for dating and was processed normally in the laboratory.

B EDXRF Data

Label	Ni	Cu	Rb	Sr	Y	Zr	Nb
Context 19	143.298	138.531	16.689	342.543	37.753	155.704	10.772
Context 18	127.073	113.949	15.004	343.271	96.07	143.251	10.646
Context 18	169.568	148.242	17.341	353.212	24.126	141.784	10.387
Context 0	172.385	160.297	16.541	356.349	57.311	137.105	10.452
Context 18	123.763	115.902	14.582	370.528	114.449	141.899	9.254
Context 0	117.062	89.686	14.488	350.596	35.178	139.206	9.72

Note: All data in parts per million

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**SUPPORTING
DOCUMENTATION ON
CULTURAL IMPACT
ASSESSMENT
REQUIREMENT**

APPENDIX

D-4

Ka Pa‘akai Analysis and Determination



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MEMORANDUM

To: Keiki-Pua S. Dancil, Ph.D.
Fr: Trisha Kehaulani Watson, J.D., Ph.D.
Re: Ka Pa'akai Analysis and Determination
Date: September 17, 2021

Ka Pa'akai Analysis

Article XII, Section 7 of the Hawai'i Constitution obligates the State Land Use Commission ("LUC") to protect the reasonable exercise of customarily and traditionally exercised rights of native Hawaiians to the extent feasible when granting a petition for reclassification of district boundaries. In order to effectuate the State's obligation to protect native Hawaiian customary and traditional practices while reasonably accommodating competing private interests, the Hawai'i Supreme Court provided the following analytical framework as an outcome of *Ka Pa'akai O ka 'aina v. Land Use Commission* (94 Hawai'i 31, 7 P.3d 1068, September 11, 2000). The framework is referred to as *Ka Pa'akai Analysis* and consists of three parts:

1. Identify the scope of "valued cultural, historical and natural resources" in the petition area, including to the extent to which traditional and customary rights and practices are exercised in the affected area;
2. Determine the extent to which those resources, including traditional and customary native Hawaiian rights, will be affected or impaired by the proposed action; and
3. Identify feasible actions, if any, that should be taken by the LUC to reasonably protect Native Hawaiian rights and practices if they are found to exist.

Pūlama Lāna'i is processing an application to reclassify 200 acres from the State Land Use ("SLU") Agricultural District into the SLU Urban District for an industrial area on the island of Lāna'i. The proposed boundary amendment is on a portion of TMK (2) 4-9-002:061. The land is adjacent to other industrial parcels such as the Lāna'i Airport, Hawaiian Electric Fossil Fuel Power Plant, and Miki 20-acre industrial park (see Figure 1). The existing condition of the land is former pineapple fields that have lain fallow for over 30 years.

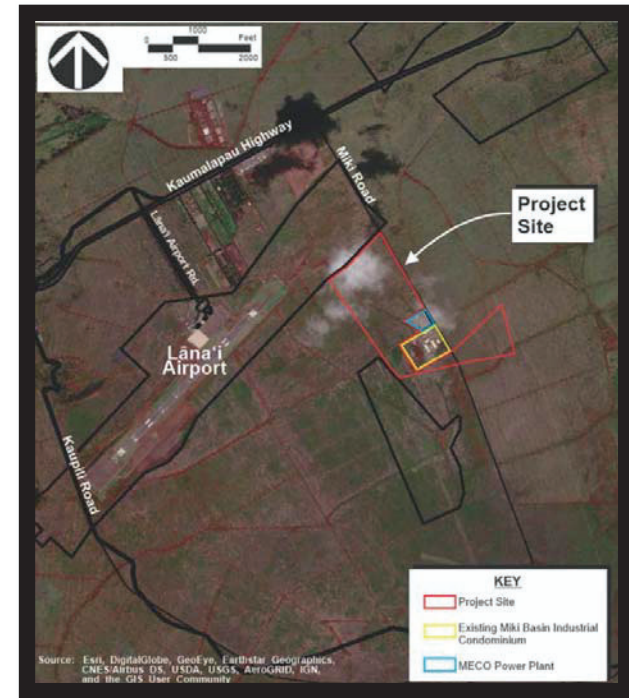


Figure 1: Miki Basin Industrial Park Project Area Map, provided by Munekiyo Hiraga.

Although Honua Consulting did not complete the Archaeological Inventory Survey ("AIS") for the Miki Basin 200 Acre Industrial Development (DiVito, Maly, and Dye 2018), we have reviewed the survey and have worked on multiple projects on Lāna'i for Pūlama Lāna'i as the archaeological consultant. In addition, Nathan DiVito is currently employed by Honua Consulting, and Thomas Dye, Ph.D. (Principal of T.S. Dye & Colleagues, Archaeologist, Inc.) has provided Honua Consulting with archives of studies performed by his firm for Pūlama Lāna'i since closing his business upon retirement.

Honua Consulting has reviewed the archaeological materials in the Draft Environmental Assessment ("Draft EA") for the District Boundary Amendment Application. These materials included the following:

- Archaeological Inventory Survey ("AIS") for the Miki Basin 200 Acre Industrial Development (DiVito, Maly, and Dye 2018)



- State Historic Preservation Division (“SHPD”) Archaeological Inventory Survey Acceptance Letter (August 2020)
- Supporting Documentation on Cultural Impact Assessment Requirement
 - Letter from Kepā Maly to Kurt Matsumoto dated September 24, 2019
 - Letter from Kepā Maly to Kurt Matsumoto dated June 26, 2020
 - Interview with La‘ikealoha Hanog by Honua Consulting on August 21, 2021
 - Interview with Kumu Hula Pualani Kauila by Honua Consulting on August 19, 2021

Ka Pa‘akai Analysis and Recommended Determination

Based on the guidelines set forth in *Ka Pa‘akai*, the Hawai‘i Supreme Court provided government agencies an analytical framework to ensure the protection and preservation of traditional and customary Native Hawaiian rights while reasonably accommodating competing private development interests. This is accomplished through:

- 1) The identification of valued cultural, historical, or natural resources in the project area, including the extent to which traditional and customary Native Hawaiian rights are exercised in the project area.
- 2) The extent to which those resources—including traditional and customary Native Hawaiian rights—will be affected or impaired by the proposed action; and
- 3) The feasible action, if any, to be taken to reasonably protect Native Hawaiian rights if they are found to exist.

This assessment was completed throughout numerous documents, which are identified in this memo. These various documents thoroughly identified valued cultural, historical, and natural resources in the project area, including the extent to which traditional and customary Native Hawaiian rights are exercised in the project area.

The following is based on the information provided in the archaeological materials in the Draft EA, which included interviews, letters, the AIS and SHPD’s acceptance letter of the AIS.

Cultural Resources and Traditional Cultural Practices

Kepā Maly recently retired from Pūlama Lāna‘i as the Cultural Advisor. He is also one of the co-authors of the SHPD accepted AIS and author of two letters attesting to the extensive outreach and research of the project area in regard to a cultural impact assessment. In his letter, he stated the following:

Based on the detailed ethno-historical research conducted for the ahupua‘a in which the “Miki Basin Industrial Park” project is situated and on my personal knowledge and experience, having lived on Lāna‘i and worked with elder Hawaiian residents of Lāna‘i from the 1960s to present day, no traditional or customary practices will be impacted by the proposed Miki Basin Industrial Park.

Honua Consulting reached out to three native Hawaiian community members (Solomon Pili Kaho‘ohalahala, La‘ikealoha Hanog, and Kumu Hula Pualani Kauila) recently to conduct telephone interviews, Solomon Pili Kaho‘ohalahala did not respond to the interview request.



There were references to gathering of ‘a‘alii and ‘uhaloa in the project area for adornments and la‘au lapa‘au by one of the interviewees. Therefore, per the Ka Pa‘akai analysis, the first test identified cultural resources and traditional practices in the project area.

The second test considers potential impacts to these resources and practices resulting from the proposed project. Both ‘a‘alii and ‘uhaloa are common throughout the Pālāwai-Miki Region of Lāna‘i and prevalent in the surrounding areas of the project, which is also noted by Kepā in his letter dated September 24, 2019. The project is not anticipated to affect the availability of these cultural resources and the project will not affect access to these resources in the region. Therefore, the project is not anticipated to have an impact on this practice in the ahupua‘a.

Both interviewees also mentioned deer hunting for subsistence. Although not a traditional cultural practice due to the lack of deer present in pre-contact Hawai‘i, it should be noted that Pūlama Lāna‘i manages hunting in the area and deer is abundant in the vicinity of the project area. The project will not affect access to deer for subsistence hunting.

One of the interviewees mentioned a cave in the project area and the use as a lookout for canoes. In the AIS, the extensive research did not reveal either a cave or the use of the area as a lookout for canoes.

Due to the project’s lack of impact to traditional or customary practices, feasible action to be taken to reasonably protect Native Hawaiian rights is not required.

Recommended Determination

Based on the review of the archaeological materials provided and the additional interviews conducted, the proposed 200-acre project area is not anticipated to affect the rights customarily and traditionally exercised and does not affect or impair any Hawai‘i State Constitution, Article XII, Section 7 uses, or the feasibility of protection of those uses. We recommend that the LUC make a consistent finding of fact(s) and/or conclusion(s) of law.

**Confirmation Letters for Cultural Impact
Assessment and Determination**

September 24, 2019

Kurt Matsumoto, COO
Pulama Lānaʻi
733 Bishop Street Suite 2000
Honolulu, HI 96813

Re: Archaeological Inventory Survey for the Miki Basin 200 Acre Industrial
Development TMK (2) 4-9-002:061 (portion)
Dye, DiVito and Maly (May 9, 2018)

Mr. Matsumoto:

This letter confirms that, although not titled as such, the Archaeological Inventory Survey cited above included research compliant with guidelines for development of a cultural impact assessment study (CIA), required by the Hawaiʻi Supreme Court's holding in *Ka Paakai O Ka Aina v. Land Use Commission, State of Hawaiʻi*, 7 P.3d 1068, 94 Hawaiʻi 31 (2000).

The study includes descriptions of traditional knowledge of place, and traditional and customary practices as documented in Hawaiian language accounts from Lānaʻi. There also cited important historical accounts penned by foreign residents and visitors, documenting the changes in land use, access and residency from the 1840s to the 1950s. As a result of the rapid decline of the native Hawaiian population on Lānaʻi, and early control of nearly all the land on the island by non-native business interests, little documentation pertaining to the extent to which traditional and customary native Hawaiian rights might be exercised in the petition area survived the passing of time. No native tenant kuleana (property rights) or Royal Patent Grants were issued for lands within the petition area. By the 1870s control of the petition area lands was held under one individual, who also posted notices advising against trespass. By the 1920s, the entire area was dedicated to cultivation of pineapple (see Figure 1). Through the 1930s, the petition area included a residential field camp for Japanese employees of the plantation and their families.

Cultivation of pineapple and maintenance of support infrastructure such as road ways, water lines and stockpile sites was the only land use in the area until the close of the plantation in 1992. The Petition Area was completely cleared and cultivated in pineapple for nearly 70 years. The land was bulldozed, plowed, graded, and planted with pineapples multiple times during that period. Because of the heavy use of pesticides and growth hormones, it would have been highly unlikely that plants of medicinal or other cultural uses would have been gathered across these fields. Since the close of the pineapple plantation in 1992, a few native plant species have volunteered across the nearly 20,000 acres of former pineapple fields. Most notable are the indigenous 'a'ali'i (*Dodonaea viscosa*), 'ilima (*Sida fallax*), naio (*Myoporum sandwicense*), and the 'uhaloa (*Waltheria indica*). While each of the plants have cultural value and uses, none are rare, and all grow throughout the Pālāwai-Miki Region of Lānaʻi.

September 25, 2019
Mr. Kurt Matsumoto
(Page 2.)



Figure 1. Pineapple Field Harvest in Miki Basin Fields – Miki Camp in Background (left). HAPCo Photo No. 525, August 31, 1928 (Lānaʻi Culture & Heritage Center Collection).

There was no evidence of any protected cultural practices occurring on the site. Therefore, the project will not have any significant negative impact on traditional and customary practices.

Should you have any further questions, please let me know.

'O wau no me ka ha'aha'a,

Kepā Maly

Kepā Maly
P.O. Box 631500
Lānaʻi City, Hawaiʻi 96720

June 26, 2020

Kurt Matsumoto, COO
Pūlama Lānaʻi
733 Bishop Street Suite 1500
Honolulu, HI 96813

Re: Cultural Impact Assessment for the Miki Basin 200 Acre Industrial Development TMK (2) 4-9-002:061 (portion) Dye, DiVito and Maly (May 9, 2018)

Mr. Matsumoto:

This letter confirms that a cultural impact assessment study (CIA) was prepared for the Miki Basin Industrial project consistent with the requirements by the Hawaiʻi Supreme Court's holding in *Ka Paakai O Ka Aina v. Land Use Commission, State of Hawaiʻi*, 7 P.3d 1068, 94 Hawaiʻi 31 (2000)

Based on the detailed ethno-historical research conducted for the ahupuaʻa in which the "Miki Basin Industrial Park" project is situated and on my personal knowledge and experience, having lived on Lānaʻi and worked with elder Hawaiian residents of Lānaʻi from the 1960's to present day, no traditional or customary practices will be impacted by the proposed Miki Basin Industrial Park.

In fact, over the last twenty plus years, native Hawaiian and non-Hawaiian residents of Lānaʻi have provided testimony and support for development of the industrial area project as a means of promoting community sustainability and entrepreneurial opportunities.¹

Over the last 50 years I have been involved in many consultation interviews with elder kamaʻāina from Lānaʻi who have broad knowledge of the history and issues on the island. In addition, I have interviewed several elder residents of Miki Camp, which was in the immediate vicinity.

I have interviewed people, with both traditional and historical knowledge of Kalulu and Kaunolū ahupuaʻa where the proposed Miki Basin Industrial Park is situated.

I have reviewed earlier cultural resource management studies of the area and included native resident testimonies from records of the Māhele ʻĀina, Royal Patent Grants and Boundary Commission proceedings (1848-1876), as cited in the Miki Basin report.

In the late 1980s, the community engaged in planning discussions on a wide range of topics. They sought to address concerns about protection of Lānaʻi City, land use, zoning, adaptive new uses, including shifting the industrial use of the former Machine Shop Fleet and Labor Yard, from the heart of town. The vision was to relocate heavy and light industrial uses to the area of Miki Basin, and adaptively reuse the town site as a community heritage and educational center, and also enhance small business initiatives.

¹ Maui County General Plan 2030 Lānaʻi Community Plan. Process on plan update can be found in various versions of the process at this website <http://mauicounty.us/lanaicomunityplan/>

The Lānaʻi Community Plan, which provides "...strategic planning goals, policies, and actions, to guide decision-making and implementation through 2030"² includes, "[T]he Airport Area conceptual plan's goals are to improve the experience of flying into Lānaʻi by improving transportation facilities, and to consolidate industrial uses."³ The plan outlines:

"The existing industrial uses on Miki Road will be expanded in a proposed industrial area of approximately 200 acres, divided into approximately 100 acres each of light and heavy industrial. Light industrial uses in Lānaʻi City will also be moved and consolidated in this area. It will also serve as a staging area for shipments from the harbor to be distributed closer to town."⁴

"To update the Lānaʻi Community Plan, the Department of Planning's Long Range Planning Division worked with the Lānaʻi community, stakeholders, agencies, the Lānaʻi CPAC, the Lānaʻi Planning Commission, and the County Council between 2010 and 2015."⁵

The Community Plan Advisory Committee members included native Hawaiian residents and a cross-section of community members including: Christine Costales, Deborah de la Cruz, Joseph Felipe, Reynold "Butch" Gima (Chair), Ernest Magaoay, Matt Mano, Ron McOmber, Stanley Ruidas (Vice Chair), Alberta DeJettley, Charles Kaukeano, Jarrod Barfield, Jeofrey Baltero, and Caron Green.⁶

There were twenty three CPAC (Community Plan Advisory Committee) meetings held from January – September 2013, where the community could attend and provide testimony to shape the Community Plan.⁷ Furthermore, there were two Public Workshops⁸ held on April 4 and April 6 2013 where the community could express their opinions and hear from their neighbors regarding Island-wide, and Lanai City specific issues and ideas. There were sixty two community members in attendance.⁹

No one stated any concerns about the use of the Miki Basin site for industrial use and on one stated that there were any traditional or customary practices in this area. There was support for the industrial use in this area.

On October 22, 2018, Pūlama Lānaʻi held a Community Meeting to discuss the Miki Basin Light & Heavy Industrial Project. There were thirty seven community members in attendance.

² Ordinance 4343 Bill No. 67 (2016) Draft 1 "A Bill for an Ordinance Amending Section 2.80B.070, Maui County Code, to adopt the updated Lanai Community Plan, page 13 of 198 in pdf, downloaded from this website link: <https://www.mauicounty.gov/DocumentCenter/View/105983/2016-Lanai-Community-Plan-?bidId=>

³ Ordinance 4343 Bill No. 67 (2016) Draft 1 "A Bill for an Ordinance Amending Section 2.80B.070, Maui County Code, to adopt the updated Lanai Community Plan, page 110 of 198 in pdf, downloaded from this website link: <https://www.mauicounty.gov/DocumentCenter/View/105983/2016-Lanai-Community-Plan-?bidId=>

⁴ Ordinance 4343 Bill No. 67 (2016) Draft 1 "A Bill for an Ordinance Amending Section 2.80B.070, Maui County Code, to adopt the updated Lanai Community Plan, page 110 of 198 in pdf, downloaded from this website link: <https://www.mauicounty.gov/DocumentCenter/View/105983/2016-Lanai-Community-Plan-?bidId=>

⁵ Ibid at page 17 of 198.

⁶ Document can be downloaded here: <http://mauicounty.us/wp-content/uploads/2015/01/011abill01-Exhibit-1-May-28.pdf>. See section 1.1 page 12, section 1.2 page 97, and section 1.3 page 16.

⁷ <https://www.mauicounty.gov/DocumentCenter/View/83364/CPAC-2013-Meeting-Schedule?bidId=>

⁸ <https://www.mauicounty.gov/ArchiveCenter/ViewFile/Item/17757>

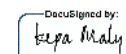
⁹ <https://www.mauicounty.gov/ArchiveCenter/ViewFile/Item/17962>

Community members were encouraged to provide input, concerns, anticipated impacts at and following this meeting and no one stated any concerns or knowledge of any traditional and customary practices in this area. There was support for industrial use in this area.

No evidence of any protected cultural sites or practices was found in these various forms of ethno-historical documentation. Therefore, the project will not have any significant negative impact on traditional and customary practices.

Should you have any further questions, please let me know.

'O wau no me ka ha'aha'a,

DocuSigned by:

Kapa Maly

1000332528714C4
P.O. Box 631500
Lāna'i City, Hawai'i 96720

The table below provides additional detail about the meetings described above, including specific comments from the attendees describing their support of a consolidated industrial area in the Miki area.

Please note that the County's minutes reflected some incorrect spelling of names, Pūlama Lānaʻi has made the correction (highlighted) for record keeping. For your reference, we have also underlined individuals with Hawaiian ancestry. Only Matt Mano and Stacie Koanui Nefelar and Kaulana Kahoʻohalahala are representative of multi-generational Hawaiian families of Lānaʻi.

Meeting Name	Date	Attendees	Notes	Link
Lānaʻi CPAC Mtg. 1	1/9/2013	<p>Community Plan Advisory Committee Chris Costales, Deborah Yooko de la Cruz, Joe Felipe, Butch Gima, Ernest Magaoay, <u>Matt Mano</u>, Ron McOmber, Stan Ruidas, <u>Alberta DeJetley</u>, <u>Charles Kaukeano</u>, Jarrod Barfield, Caron Green</p> <p>County of Maui - Planning Department Will Spence, Director, Kathleen Kern, Long-Range Planning, Mary Jorgensen, Long-Range Planning, David Yamashita, Long-Range Planning</p> <p>County of Maui - Corp Counsel Mike Hopper</p> <p>Consultants Jen Maydan, Chris Hart & Partners</p> <p>Public <u>Carolyn and Walter Triber</u>, John Ornellas, Christie Costales, Robin Kaye, Kurt Matsumoto, Sally Kaye, Chet Zoll, Joseph Felipe, <u>Donovan Kealoha</u>, <u>Stacie Koanui Nefelar</u>, Chris Lovvorn, Pat Drennan, Ed Jensen, Andrea de la Cruz, <u>Bradford Oshiro</u>, Pat Reilly</p>	<p>"Kathleen Kern asked each member to identify the top issues/problems facing Lānaʻi." (Page 5 of 8)</p> <p>"Alberta: • Lack of light industrial space, including storage space for small businesses" (Page 6 of 8)</p>	https://www.mauicounty.gov/ArchiveCenter/ViewFile/Item/17640

Lānaʻi CPAC Mtg. 3	1/23/2013	<p>Community Plan Advisory Committee Chris Costales, Deborah Yooko de la Cruz, Joe Felipe, Butch Gima, Caron Green, <u>Matt Mano</u>, Ron McOmber, Stan Ruidas, <u>Alberta DeJetley</u>, <u>Charles Kaukeano</u>.</p> <p>County of Maui - Planning Department David Yamashita, Long-Range Planning, Kathleen Kern, Long-Range Planning Mary Jorgensen, Long-Range Planning</p> <p>Consultants Jen Maydan, Chris Hart & Partners</p> <p>Public <u>Lisa Kaniho</u>, David Green, David Tanoue, Kurt Matsumoto, Pat Reilly, <u>Carolyn & Walter Triber</u>, Steven Luliti, David Embrey, <u>Pam Alconcel</u>, Nancy Rajaei, <u>Michelle Fujie</u>, Jason Gill, David Gardner, Sue Murray, Henry Clay Richardson, <u>Sally & Jim Clemens</u>, <u>Kathy & Stu Marlow</u>, Ron Gingerich, John Stubbart, Doug Williams, Natasha Inaba, Don Jackson, Judith Stilgenbauer, Mark Sacco, Chris Andrus, Jessica Smith, <u>Anthony Pacheco</u>, Sherri Williams, <u>Simon Seisho Tajiri</u></p>	<p>“Joe supports the idea of moving the industrial are to Miki Basin and creating a museum at the labor/base yard.” (Page 7 of 9)</p>	<p>https://www.mauicounty.gov/ArchiveCenter/ViewFile/Item/17642</p>
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Lānaʻi CPAC Mtg. 4	6-Feb-13	<p>Community Plan Advisory Committee Chris Costales, Deborah de la Cruz, Ernest Magaoay, Butch Gima, Caron Green, <u>Matt Mano</u>, Ron McOmber, Stan Ruidas, <u>Alberta DeJetley</u>, <u>Charles Kaukeano</u></p> <p>County of Maui - Planning Department David Yamashita, Long-Range Planning Kathleen Kern, Long-Range Planning Mary Jorgensen, Long-Range Planning Doug Miller, Long-Range Planning</p> <p>Consultants Jen Maydan, Chris Hart & Partners</p> <p>Public Pat Reilly, Sue Murray, Wallace Stalker, <u>Diane Preza</u>, <u>Roselani Kahoʻohalahala</u>, <u>Kaulana Kahoʻohalahala</u>, Simon Tajiri, Charlotte Menze, Michael Hurte, Nicholas E. Palumbo II, Mark Sacco, Henry Clay Richardson, Elaine Londreur, Robin Kaye, Keoki Kerr, Chester Koga</p>	“He noted that if the community is going to have opportunities to have businesses then they will need land. All the community got is hotels and they didn’t get the light industrial land.” (Page 4 or 8)	https://www.mauicounty.gov/ArchiveCenter/ViewFile/Item/17660
Lānaʻi Community Plan Update Public Workshops	April 4 & 6, 2013	62 People (see notes for Lanai CPAC Mtg. 10)		https://www.mauicounty.gov/DocumentCenter/View/84254/040413-Public-Workshops-Flyer?bidId=

Lānaʻi CPAC Mtg. 10	24-Apr-13	<p>Community Plan Advisory Committee Attendees Chris Costales, Deborah de la Cruz, Butch Gima, Caron Green, Ron McOmber, <u>Alberta DeJetley</u>, Stan Ruidas</p> <p>County of Maui - Planning Department Attendees Kathleen Kern, Long-Range Planning Mary Jorgensen, Long-Range Planning Doug Miller, Long-Range Planning</p> <p>Public Attendees <u>Winnie Basques</u>, Dave Green, Kepa Maly, Lynn McCrory, <u>Meilani Aki</u>, Howard MacNair, Donna MacNair, Alan Chun, <u>Tom Hoen</u>, Chester Koga, David Tanoe, John Stubbart, Charlie Palumbo, Ron Gingerich, Judi Riley, Bridgette Beatty, Linda Morgan, Natasha Inaba, <u>Joelle Aoke</u>, Kanish Tulbera, Bryan Jacalne, <u>Sadie Schilling</u>, Alicia Ebding, Michelle Fujiie</p>	<p>“Mary presented a brief summary of the April 4th Island-wide Public Workshop that was attended by 62 people. A summary table for housing types and density per acre showed the highest preference was for 2-4 unit buildings such as single family with ohana, duplex, multi-generational (more than one kitchen), or four-plex. A summary table for recreational references by location showed high scores for forest restoration, historical site visits and restoration. Finally Mary reviewed three maps from the April 4th Public Workshop that the public drew locations for, and commented on, preferred future development alternatives. Ron asked when the CPAC will see a complete summary of the workshop results. Mary replied that a summary will be posted on the website once it is completed.” (Page 2 of 4)</p> <p>“Mary encouraged the CPAC members to draw on the base map the locations of new growth areas and note what type of development they would like to see in these areas.” (Page 3 of 4)</p> <p>“Alberta said that the State does not want to see any farms within a one mile radius around the airport.” (Page 3 of 4)</p>	<p>https://www.mauicounty.gov/ArchiveCenter/ViewFile/Item/17962</p>
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Lānaʻi CPAC Mtg. 12	22-May-13		<p>“The CPAC also requested to see the proposed footprint of the 200 acres of light and heavy industrial lands.” (Page 2 of 2)</p> <p>“Motion: Support the concept of adding 100 acres of light industrial and 100 acres of heavy industrial land in the Miki Basin. Passed -All were in favor.” (Page 2 of 2)</p>	<p>https://www.mauicounty.gov/ArchiveCenter/ViewFile/Item/18022</p>
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Interview with La'ikealoha Hanog



4348 Wai'ālae Ave #254 • Honolulu Hawai'i 96816 • T: (808) 392-1617 • F: (888) 392-4941 • E-Mail: admin@honuaconsulting.com

Interview with La'ikealoha Hanog

Interviewer: Matthew Sproat

Interviewee: La'ikealoha Hanog

Date: August 21, 2021

Location: via phone

Biography

Ms. Hanog works in food and beverage service for Hale o Manele (Trilogy Wedding and Event) on the island of Lāna'i. She was born on the island of Maui and raised on Lāna'i, where she still lives.

Overview

As a seventh-generation family of Lāna'i, Ms. Hanog possesses a robust knowledge base of the project area's environment and relevance to traditions and customs. She recounted the various plants and animals known to the project area as well as associated traditions and customs. Ms. Hanog expressed her concerns regarding the myriad impacts to access and habitat that the project would create.

General Discussion

Ms. Hanog is associated with the project area through collecting and harvesting. She uses some of the plants that are known to be in the project area's region. Most recently, she and other practitioners go to the area to collect native Hawaiian plants. The plants are used for medicinal purposes, adornments, and gifts.

When asked about freshwater aquifers in the project area, Ms. Hanog explained that there are aquifers at various places across the island, but that the wells are located further mauka of the project area.

Ms. Hanog could not recount any cultural stories associated with the project area. However, in her personal narrative, she recounted that she and her family would use the area for traditional gathering.

Cultural Resources

Ms. Hanog explained the various flora that are in the project area and their uses. 'A'ali'i is used for adornments. 'Uhaloa is found here and used for medicinal purposes. There is also ilima and lantana. Regarding fauna, Ms. Hanog mentioned she had seen pueo recently, and noted that it has been a long time since she had seen them. She also noted that there are deer, pheasants, and quail in the area. She mentioned that during her grandparents' time, pheasants were abundant. Unfortunately, now they are more scarce.



Traditions and Customs

Ms. Hanog uses the project area to gather plants for traditional medicine and adornments. She made special mention that she uses the area to gather plants primarily because of access. It is easier to gather plants in this area as opposed to the eastern shoreline or Manele bay. Ms. Hanog also noted that her husband is a hunter, and harvests deer in the area to feed her family and other members of the community. Due to the remote geography of Lāna'i, gathering and hunting are inextricably tied to livelihood and subsistence.

Impacts

First, Ms. Hanog explained that the project could impact access to the area to collect culturally important plants. The buildings and footprint of the project may impact plant life, as well as the associated traffic the project would create. The project could also affect the deer population in the area, which her husband harvests via archery. Ms. Hanog also noted that the project would disrupt the habitat and nesting grounds of birds such as pueo and pheasant.

Second, Ms. Hanog noted that more broadly, there are concerns about projects which are designed to bring more people to Lāna'i. With no free-flowing surface water on Lāna'i, there are real concerns of how further development will affect water resources and the environment more broadly.

Ms. Hanog is not aware of any iwi in the area, however she did mention that there are burials (including her 'ohana) mauka of the project area.

Mitigation Measures & Recommendations

Ms. Hanog said that she would prefer the project not go through. If the project does proceed, she hopes that there is something in writing to ensure protection and health of native plants. Regarding the native fauna, she hopes the project would be mindful of their habitat (including deer). The deer are already stressed due to the dry weather.

Ms. Hanog recommended that resources of Lāna'i be made a priority, and to focus on the projects and developments that are already underway and causing impacts. She noted that the population of Lāna'i has increased and raised concerns that the resources cannot sustain a growing population.

Interview with Kumu Hula Pualani Kauila



Interview with Kumu Hula Pualani Kauila

Interviewer: Matthew Sproat

Interviewee: Pua Kauila

Date: August 19, 2021

Location: via phone

Biography

Ms. Kauila is a retired educator of Hawaiian Studies at the University of Hawai'i, Mānoa. She was born and raised on the island of Lāna'i, at Kō'ele Ranch. When she was born, her grandfather was the head wrangler for Kō'ele Ranch. Her father and uncles were also workers on the ranch. At the age of 6, she left Lāna'i and moved to Maui, but spent her summers working on Lāna'i. She currently lives in Honolulu. She is a Kumu Hula and cultural practitioner.

Overview

Ms. Kauila is associated with the project area through her personal narrative. She possesses a robust knowledge about Lāna'i, its history, and its people. Overarchingly, she is concerned that the project will further develop Lāna'i at the expense of its long-time residents who have called Lāna'i home for generations.

General Discussion

Ms. Kauila explained the modern history of Lāna'i, which was used as cattle ranchland for the people of Maui, Moloka'i, and Lāna'i, before the pineapple industry purchased 90% of the island. During ranch times, the project area near the airport was known as the "piggery".

Ms. Kauila noted that Hawaiians lived on ocean land, which is why those areas today are not developed; these lands were passed down through inheritance or were old kuleana lands. She also explained that because the island is so small, and given its history, the people of Lāna'i are very closed to new things happening.

Cultural Resources

Ms. Kauila explained that, according to the oral traditions of when Lāna'i was inhabited by ghosts, there was a cave in the project area (facing the ocean side). This was where Kaulula'au stayed. In this cave, which opens and closes to certain people, are remnants of cultural artifacts including canoes, ipu, and capes.

Regarding flora and fauna, Ms. Kauila noted that pueo are very well known in the area. She sees them often when she returns home. She could not identify any native plants in the area but noted that she would have to refer the interviewer to another individual.

Traditions and Customs

Ms. Kauila explained that hunters use the area to hunt axis deer for their own subsistence. Historically, she noted that the area was used as a look-out to see when other canoes were approaching the island.

Impacts



Ms. Kauila explained that the people of Lāna'i will be opposed to any industrial or commercial areas built on the land. She noted the negative impact of visitors on the island. Because the island is so small, any further development will negatively impact the island itself. She raised questions such as: would the development deface the island? Would it impact the people coming in to hunt? She firmly believes an industrial area will limit what that side of the island can access, whether for hunting or agricultural purposes.

Mitigation Measures & Recommendations

Ms. Kauila said that there must be community engagement. Everyone must be able to voice their opinions. Her recommendation is to have the local community drive the process.

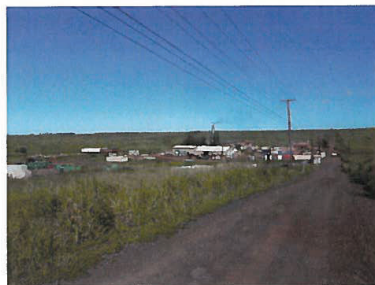
**PHASE I
ENVIRONMENTAL
SITE ASSESSMENT**

APPENDIX

E

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Miki Basin
200 Acre Property
Proposed Industrial Area
Miki Road
(SE of Existing Airport Runway)
Lanai City, Hawaii



April 3, 2014

TRC Project No: 215880

Prepared For:

Lanai Resorts, LLC
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Pacific Guardian Center – Makai Tower
Honolulu, Hawaii 96813

Prepared By:

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Kacey Swindle
Industrial Hygienist



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Appendix C: Historical Research Documentation
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Appendix E: Other Reference Information
Appendix F: TRC Staff and Environmental Professional Qualifications/Resumes
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EXECUTIVE SUMMARY

Subject to the qualifications and limitations stated in Section 1 of this report, TRC Environmental Corporation (TRC) was retained by Lanai Resorts, LLC to perform a Phase I Environmental Site Assessment (ESA) of approximately 200 acres of undeveloped land primarily located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road. The Site is three and a half miles east of the Pacific Ocean and begins approximately 0.7 miles south of Kaunalapau Highway in Lanai City, Maui County, Hawaii (herein referred to as the “Site”). TRC’s assessment was conducted in connection with the Clients’ planned renovation of the Site to include light and heavy industrial areas. The Phase I ESA described in this report was performed in accordance with the scope and limitations of the American Society of Testing and Materials Practice E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13). Limitations and/or deviations from the ASTM E 1527-13 standard are described in Section 1.3 of this report.

The Site is currently undeveloped land.

No transformers were observed on the Site. Utility owned pole-mounted transformers are located adjacent to the property area. It is unknown if the transformers may contain polychlorinated biphenyls (PCBs).

Based on information obtained from the site reconnaissance and available information, no underground storage tanks (USTs) or above ground storage tanks (ASTs) are located on the Site.

Freedom of Information Act (FOIA) record reviews were completed by TRC of Hawaii Department of Health’s (DOH) available records. DOH records did not indicate any concerns associated with the Site.

As a result of the Phase I ESA, including but not limited to our visual observation of the Site; review of historical information, environmental databases, and information provided by the User; interviews with the current Site representative; and TRC’s professional judgment, no *recognized environmental conditions* (RECs) associated with the Site, as defined by the ASTM E 1527-13 standard, were identified.

However, potential Vapor Encroachment Conditions (VECs) were identified with respect to the permanently out of use underground storage tank (UST) listing for the nearby Lanai Airport and the following listings for the Maui Electric Company (MECO) facility: Resource Conservation and Recovery Act (RCRA) Conditionally Exempt Small Quantity Generator (CESQG), Toxic Chemical Release Inventory System (TRIS), PCB Activity Database System (PADS) and SPILLS. As such, vapor encroachment onto the Site from this adjacent property could be a possibility, and based on Clients perceived risk, liability and/or corporate policy, may warrant further investigation; however, based on the lack of reported releases and/or associated regulatory status, the Lanai Airport UST and MECO facility identified as VECs have not likely caused a vapor encroachment onto the Site.

Legal Notice

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This Executive Summary is part of this complete report; any findings, opinions or conclusions in this Executive Summary are made in context with the complete report. TRC recommends that the User read the entire report for all supporting information related to findings, opinions and conclusions.

1.0 INTRODUCTION

TRC has prepared this Phase I ESA for Lanai Resorts, LLC (hereinafter “Clients” or “Users”).

This report was prepared for and may be relied upon by Clients for the purposes set forth herein; it may not be relied on by any party other than the Clients and reliance may not be assigned without the express approval of TRC. Authorization for third party reliance on this report will be considered by TRC if requested by the Clients. TRC reserves the right to deny reliance on this report by third parties.

1.1 Purpose and Scope of Services

The following Phase I ESA was performed for the Site identified as Miki Basin – Proposed Industrial Area 200 Acre Property primarily located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road. The Site is approximately three and a half miles east of the Pacific Ocean and begins approximately 0.7 miles south of Kaunapali Highway in Lanai City, Maui County, Hawaii (hereinafter the “Site”). A Site location map is included as **Figure 1**. This Phase I ESA has been prepared by TRC in accordance with the American Society for Testing and Materials E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13) and is intended for the sole use of Clients/Users. TRC was authorized to perform this assessment by signed proposal dated February 26, 2014, from Mr. Thomas A. Hoen of Lanai Resorts, LLC (Clients).

The purpose of this assessment is to identify *Recognized Environmental Conditions* (RECs) at the Site, as defined by the ASTM E 1527-13 standard. The completion of this Phase I ESA report may be used to satisfy one of the requirements for the Users to qualify for the *innocent landowner, contiguous property owner, or bona fide prospective purchaser* limitations pursuant to Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), thereby constituting *all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice* as defined by 42 U.S.C. §9601(35)(B) of CERCLA.

TRC understands that this assessment is not funded with a federal grant awarded under the U.S. EPA Brownfields Assessment and Characterization program.

The Scope of Services for this Phase I ESA included the following tasks:

- Site and vicinity reconnaissance;
- Site and vicinity description and physical setting;
- Historical source review and description of historical Site conditions;
- Interviews with owners, operators, and/or occupants of the Site, and/or local officials;
- Review of environmental databases and regulatory agency records;
- Review of previous environmental reports/documentation, as applicable;
- Review of environmental liens, if requested by the Users; and

- Preparation of a report summarizing findings, opinions and conclusions.

Pursuant to the ASTM E 1527-13 standard, recommendations to conduct Phase II sampling or other assessment activities are not required to be included in this report. TRC can provide such recommendations upon request.

1.2 Additional Services

Items outside the scope of the ASTM E 1527-13 standard include, but are not limited to:

<ul style="list-style-type: none">• Asbestos• Radon• Lead-based paint• Lead in drinking water• Wetlands• Regulatory compliance• Cultural and historic resources	<ul style="list-style-type: none">• Industrial hygiene• Health and safety• Ecological resources• Endangered species• Indoor air quality including vapor intrusion• Biological agents• Mold
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1.3 Limitations and Deviations

1.3.1 Accuracy and Completeness

The ASTM E 1527-13 standard recognizes inherent limitations for Phase I ESAs that apply to this report, including:

- ❖ Uncertainty Not Eliminated – No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. Data gaps identified during this Phase I ESA are listed in Section 7.4.
- ❖ Not Exhaustive – A Phase I ESA is not an exhaustive investigation.
- ❖ Past Uses of the Property – A review of standard historical sources at intervals less than five years is not required.

The Clients is advised that the Phase I ESA conducted at the Site is a limited inquiry into a property's environmental status, cannot wholly eliminate uncertainty, and is not an exhaustive assessment to discover every potential source of environmental liability at the Site. Therefore, TRC does not make a statement i) of warranty or guarantee, express or implied for any specific use; ii) that the Site is free of RECs or environmental impairment; iii) that the Site is "clean"; or iv) that impairments, if any, are limited to those that were discovered while TRC was performing the Phase I ESA. This limiting statement is not meant to compromise the findings of this report; rather, it is meant as a statement of limitations within the ASTM standard and intended scope of this assessment. Specific limitations identified during the Site reconnaissance are described in Section 5.1. Subsurface conditions may differ from the conditions implied by surface observations, and can be evaluated more thoroughly through intrusive techniques that are beyond

the scope of this assessment. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other construction purposes.

This report presents TRC's site reconnaissance observation, findings, and conclusions as they existed at the time of the Site reconnaissance. TRC makes no representation or warranty that the past or current operations at the property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. TRC makes no guarantees as to the accuracy or completeness of information obtained from others during the course of this Phase I ESA report. It is possible that information exists beyond the scope of this assessment, or that information was not provided to TRC. Additional information subsequently provided, discovered, or produced may alter findings or conclusions made in this Phase I ESA report. TRC is under no obligation to update this report to reflect such subsequent information. The findings presented in this report are based upon reasonably ascertainable information and observed Site conditions at the time of the assessment.

This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not assessed. Regardless of the findings stated in this report, TRC is not responsible for consequences or conditions arising from facts that were not fully disclosed to TRC during the assessment.

An independent data research company provided the government agency database referenced in this report. Information regarding surrounding area properties was requested for approximate minimum search distances and was assumed to be correct and complete unless obviously contradicted by TRC's observations or other credible referenced sources reviewed during the assessment.

TRC is not a professional title insurance or land surveyor firm and makes no guarantee, explicit or implied, that any land title records acquired or reviewed, or any physical descriptions or depictions of the property in this report, represent a comprehensive definition or precise delineation of property ownership or boundaries.

1.3.2 Warranties and Representations

This report does not warrant against: (1) operations or conditions which were not evident from visual observations or historical information provided; (2) conditions which could only be determined by physical sampling or other intrusive investigation techniques; (3) locations other than the Clients-provided addresses and/or legal parcel description; or (4) information regarding off-site location(s) (with possible impact to the Site) not published in publicly available records.

1.3.3 Continued Validity/User Reliance

This report is presumed to be valid, in accordance with, and subject to, the limitations specified in the ASTM E 1527-13 standard, for a period of 180 days from completion, or until the Clients obtains specific information that may materially alter a finding, opinion, or conclusion in this report, or until the Clients is notified by TRC that it has obtained specific information that may

materially alter a finding, opinion, or conclusion in this report. Additionally, pursuant to the ASTM E 1527-13 standard, this report is presumed valid if completed less than 180 days prior to the date of acquisition of the property or (for transactions not involving an acquisition) the date of the intended transaction.

1.3.4 Deviations to ASTM E 1527-13 Standard

No significant deviations or deletions to the ASTM standard were made during this Phase I ESA.

1.3.5 Significant Assumptions

During this Phase I ESA, TRC relied on database information; interviews with Site representatives, regulatory officials, and other individuals having knowledge of Site operations; and information provided by the Users as requested in our authorized Scope of Work. TRC has assumed that the information provided is true and accurate. Reliance on electronic database search reports is subject to the limitations set forth in those reports. TRC did not independently verify the information provided. TRC found no reason to question the validity of the information received unless explicitly noted elsewhere in this report. If other information is discovered and/or if previous reports exist that were not provided to TRC, our conclusions may not be valid.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The Site is identified as portion of Tax Lot 4-9-002:001 and consists of approximately 200 acres of undeveloped land primarily located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road. The Site is approximately three and a half miles east of the Pacific Ocean and begins approximately 0.7 miles south of Kaunalapau Highway in Lanai City, Maui County, Hawaii. The Site is currently owned by Lanai Resorts, LLC. A Site location map is included as **Figure 1**.

2.2 Site Improvements

Current on-site improvements are listed in the following table.

Site Feature	Description
Building (stories)	None
Construction date	N/A
Exterior areas	N/A
On-site roads/rail lines	Miki Road
Other large equipment	Utility owned and operated pole-mounted transformers were located adjacent to the property. The transformers were either not accessible or not labeled, and it is and unknown if the transformers may contain PCBs.
Potable water supply	N/A
Sewage disposal system	N/A
Heating/Cooling System	N/A
Back-Up fuel source	N/A
Electricity supplier	Property doesn't currently have service; however, Maui Electric Company serves the entire island.
Storm water system	Runoff

2.3 Current and Historical Site Use

2.3.1 Current Site Use(s)

The Site is currently undeveloped.

2.3.2 Previous Owner and Operator Information

The Site is believed to have always been undeveloped and utilized for agricultural purposes associated with the island's pineapple plantation.

2.4 Physical Setting

According to the United States Geological Survey (USGS) topographic map, Lanai City, HI quadrangle dated 1992, the Site is located approximately three and a half miles to the east of the

Pacific Ocean, the Site topographic elevation is approximately 1,247 feet above mean sea level (MSL), and local topography slopes to the west-southwest. Based on local topography and historical environmental reports provided to TRC, as applicable, the assumed direction of shallow ground water flow is to the west-southwest towards the Pacific Ocean. However, a subsurface investigation would be required to determine actual ground water flow direction.

The database radius report supplied by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut was reviewed to obtain information regarding the dominant soil composition in the Site vicinity. This information is summarized below:

Hydric Status:	Unknown
Soil Surface Texture:	Silty Clay Loam
Soil Component Name:	Molokai
Deeper Soil Types:	Molokai Silty Clay Loam

Please refer to the Geocheck Physical Setting Source Summary of the EDR report presented in **Appendix A** for further information regarding the soil composition in the Site vicinity.

Per Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map 150030500F (Panel 500 of 825), dated September 19, 2012, the Site is located in Zone X (unshaded). According to FEMA's Flood Zone Designations, Zone X represents a minimal flood hazard; that is those areas outside the Special Flood Hazard Area (SFHA) and higher than the elevation of the 0.2-percent-annual-chance flood. The FEMA Flood Insurance Rate Map is provided in **Appendix E**.

3.0 USER PROVIDED INFORMATION

According to the ASTM E 1527-13 standard, certain tasks that may help identify the presence of RECs associated with the Site are generally conducted by the Phase I ESA User. These tasks include: reviewing title records for environmental liens or activity and land use limitations; providing specialized knowledge related to RECs at the Site (e.g., information about previous ownership or environmental litigation); and providing explanations for significant reduction in the Site purchase price. A list of requested information was included in TRC's proposal date and executed February 26, 2014 (see Section 1.1). The information was provided by the User on March 20, 2014 and is included in **Appendix B**.

3.1 Title & Judicial Records for Environmental Liens or Activity and Use Limitations

The User did not provide any information regarding environmental concerns associated with title or judicial records, or the existence of environmental liens or activity and use limitations (AULs) for the Site. Completion of an additional title and judicial record search was requested by the User.

The environmental lien and AUL search report supplied by EDR of Shelton, Connecticut indicated environmental liens and AULs were not found for the Site and a copy of the EDR search report is included in **Appendix C**.

3.2 Specialized Knowledge

The User did not provide any specialized knowledge related to potential RECs at the Site.

3.3 Property Value Reduction Issues

The User did not provide any property valuation reduction issues regarding the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

TRC was supplied with commonly known and/or reasonably ascertainable information regarding the Site by Mr. Thomas A. Hoen of Lanai Resorts, LLC. This information was used during this Phase I ESA and has been incorporated in this report as applicable.

3.5 Reason for Conducting Phase I

TRC understands that the Users require a Phase I ESA as part of a study to pursue land use approval to use the land as an industrial park. According to the Users, the land is currently zoned as agricultural.

4.0 RECORDS REVIEW

4.1 Sources of Information

Information regarding Site and vicinity historical uses was obtained from various publicly available and practically reviewable sources including: aerial photographs; topographic maps; city directories; local municipal records; an environmental database report; and interviews with Site representative(s) and regulatory agency official(s), as necessary. The historical documents were obtained from Environmental Data Resources (EDR) and are included in **Appendix C**.

4.2 Historical Use Information

Historical use information regarding the Site and surrounding properties was obtained from available municipal records as well as aerial photographs (scale: 1" = 750') dated 1952; aerial photographs (scale: 1" = 500') dated 1992; topographic maps dated 1984 and 1992; and city directories from 1997, 1999 and 2103.

4.2.1 Site History

Operational History

Year	Site History
1920 – Present	Lanai City was reportedly first developed in the early 1920's. The Site appears undeveloped.

It does not appear that topographic contours in the Site area have significantly changed during the time period reviewed.

Hazardous Substances

No hazardous substances or petroleum products were observed at the Site during the Site reconnaissance.

4.2.2 Adjoining Property and Surrounding Property History

Year	Adjoining Property History
1993 – Present	Review of historic aerial photographs and topographic maps depict the area to the northwest of the site as property used for the Lanai Airport. According the Maui County Tax Assessor Website, the MECO Power Plant Facilities were developed with three large warehouse structures in 1996 north of the warehouse structure. All other areas surrounding the Site are depicted as undeveloped land utilized for agricultural and pineapple plantation activities. Pineapple plantation activities ceased operation in 1992.
1977 – 1992	Review of historic aerial photographs and topographic maps depict the area to the northwest of the site as area property used for the Lanai Airport. A storage warehouse structure is reportedly developed to the west of Miki Road to the east of the Site in 1977. All other areas surrounding the Site are depicted as undeveloped land utilized for agricultural and pineapple plantation activities
1952 – 1976	Review of historic aerial photographs and topographic maps depict the area to the northwest of the site as area property used for the Lanai Airport. All other areas surrounding the Site are depicted as undeveloped land utilized for agricultural and pineapple plantation activities.
1920 – 1952	Lanai City was reportedly first developed in the early 1920's. The Site appears undeveloped.

4.3 Database Report

A database search report that identifies properties listed on state and federal databases within the ASTM-required radii of the Site was obtained from EDR and is included in **Appendix A**. The environmental database report identified 21 properties/listings. These properties included those that could be mapped and those that could not (i.e., orphan properties).

Subject Site

The Site was not identified within any of the databases searched with the identified ASTM-required radii of the Site.

Adjacent and Surrounding Properties

TRC evaluated the following factors to determine whether additional environmental records with respect to the adjoining and/or surrounding properties should be reviewed:

- (1) Whether the property is up-gradient or down-gradient of the Site based on the local topography and the assumed south-southwest shallow ground water flow direction;
- (2) Property case status (e.g., whether the Hawaii Department of Health has issued a No Further Action letter, etc.);
- (3) Type of database and whether the presence of contamination is known; and
- (4) The distance between the listed property and the Site.

In addition, the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA) 42 U.S.C. § 9601(22) defines a “release” as “any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment (including the abandonment or discharging of barrels, containers, and other closed receptacles containing any hazardous substances or pollutant or contaminant).” According to CERCLA, the term “environment” includes (A) the navigable waters, the waters of the contiguous zone, and the ocean waters...and (B) any other surface water, groundwater, drinking water supply, land surface or subsurface strata...” Given that CERCLA and the *All Appropriate Inquiries Final Rule 40 CFR Part 312* do not differentiate by form (e.g., solid, liquid, vapor) of the release to the environment, Section 2.1 of ASTM E1527 Standard indicates that, “Vapor migration must be considered no differently than contaminated groundwater migration in the Phase I investigation.” Vapor intrusion generally occurs when there is a migration of volatile chemicals from contaminated groundwater or soil into an overlying building. Volatile chemicals can emit vapors that may migrate through subsurface soils and into indoor air spaces of overlying buildings. Volatile chemicals may include volatile organic compounds, select semi-volatile organic compounds, and some inorganic analytes. In accordance with ASTM E2600 - 10 *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, listings for potential volatile organic compounds (VOC) impacted properties located within 1,760-foot radius of the Site and listings for potential petroleum-impacted properties located with a 520-foot radius of the Site were reviewed as a component of this investigation. Potential Vapor Encroachment Conditions (VECs) were identified for properties located within the referenced radii.

Based on this evaluation, TRC limited the review of additional environmental records to the properties listed below, since the potential for contamination to be migrating to the Site from the other properties identified by the database search is considered low.

Facility Name and/or Address	Lanai Airport – Lanai City, HI
Approximate Location Relative to Site	0.001 miles to the northwest
EDR Map No.	1
Databases	UST
Description/ID Number	UST – U003222164
Presumed Hydrogeologic Setting	Up-gradient
Database Review Summary	This property had one 350 gallon UST that was reportedly closed in 1994 and currently listed as Permanently Out of Use. This facility is within the 520-foot radius for potential petroleum-impacted properties and is within the 1,760-foot radius for potential VOC-impacted properties and meets the definition of a VEC based on ASTM 2600 – 10. However, based on the current regulatory status, it is not expected that vapor migration is presently a concern to the Site.

Facility Name and/or Address	Maui Electric Company – 1001 N Miki Road, Lanai City, HI
Approximate Location Relative to Site	Southeast of the Site property boundary
EDR Map No.	Orphan Listing
Databases	RCRA-CESQG, PADS, SPILLS, US AIRS, AIRS, TRIS, HAZNET and FINDS
Description/ID Number	Reference Database Report in Appendix A.
Presumed Hydrogeologic Setting	Cross-gradient
Database Review Summary	This property has multiple listings including three small quantity spills and is a generator of small quantities of hazardous waste; however two of the three listings have been reported as cleaned up with No Further Action (NFA) status issued. The property is also equipped with AST's associated with the power generation plant. This facility is within the 520-foot radius for potential petroleum-impacted properties and is within the 1,760-foot radius for potential VOC-impacted properties and meets the definition of a VEC based on ASTM 2600 – 10. However, based on the current regulatory status, it is not expected that vapor migration is presently a concern to the Site.

According to the regulatory database report, EDR did not identify any historical auto stations (i.e., gasoline stations, filling stations, automobile repair shops, auto service stations, etc.) or historical cleaners (e.g., dry cleaners, laundromats, laundry services, wash & dry establishments, etc.) within ¼ of a mile of the Site.

4.4 Previous Reports

No environmental reports related to the Site were provided to TRC for review and inclusion into this report.

4.5 Other Environmental Record Sources

Per the ASTM standard, local or additional state records were reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed earlier in this report. Local sources that were contacted to obtain this information include: the Hawaii Department of Health, the Lanai Fire Station, the Maui County Tax Assessor, and the Maui County Department of Environmental Management. Information from these sources is discussed below:

Source	Available Information
Hawaii Department of Health	According to information provided via online public records, the Hawaii Department of Health does not appear to have any records pertaining to the Site.

Source	Available Information
Maui County Tax Assessor	According to information provided via online public records, the Maui County Tax Assessor has identified the Site as a portion of Tax Lot 4-9-002:001. Additional property size and ownership information was also provided. MECO Power Plant facility is identified as Tax Lot 4-9-002-050 and is 5 acres.
Maui County Environmental Management Department	According to information provided via online public records, the Maui County Environmental Management Department does not appear to have any records pertaining to the Site.
Maui County – Planning Department	Lanai Fire Department Captain, Todd McDonald, was unaware of any chemical spills or hazardous waste concerns at the Site.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Ms. Kacey Swindle and Mr. Ron Landolt conducted a Site reconnaissance of accessible areas on and around the Site on March 11, 2014, for the purpose of identifying potential RECs, and were unaccompanied during the Site reconnaissance. Photographs taken during the reconnaissance are provided in **Appendix D**.

5.2 Interior and Exterior Site Observations

Unless otherwise noted, the items listed in the table below appeared in good condition with no visual evidence of staining, deterioration or a discharge of hazardous materials; and there are no records of a release in these areas. Items where further description is warranted are discussed in the section(s) following the table.

Item	Present (Yes/Yes-Historic/No)	Description
Hazardous material storage or handling areas	No	
Aboveground storage tanks (ASTs) and associated piping	No	
Underground storage tanks (USTs) and associated piping	No	
Drums & containers (≥5 gallons)	No	
Odors	No	
Pools of liquid, including surface water bodies and sumps (handling hazardous substances or substances likely to be hazardous only)	No	
Polychlorinated Biphenyls (PCBs) / Transformers	No	
Stains or corrosion	No	
Drains & sumps	No	
Pits, ponds & lagoons	No	
Stressed vegetation	No	
Historic fill or any other fill material	No	
Waste water (including storm water or any discharge into a drain, ditch, underground injection system, or stream on or adjacent to the Site)	No	
Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells)	No	
Septic systems or cesspools	No	

5.2.1 Hazardous Substances

Hazardous substances and petroleum products were not observed at the Site during the Site reconnaissance.

5.3 Adjoining and Surrounding Properties Reconnaissance

5.3.1 Adjoining Properties

Direction from Site	Current Land Use Description
North	Undeveloped land with Kaunalapau Highway beyond
East	MECO Power Plant Facility and the storage warehouse, metal scrapyard and Maui disposal Sites are located to the east of the Site property boundary along with Miki Road followed by undeveloped land
South	Undeveloped land
West	Undeveloped land with the Lanai City Airport to the northwest

TRC observed one 55 gallon metal drum partially filled with gasoline, one 55 gallon plastic drum partially filled with oil and one 5 gallon bucket with an unknown material located on a wooden pallet in an unsecured plastic truck bed liner in the metal scrapyard area located on the existing industrial facility owned and operated by Lanai Resorts, LLC to the east of the Site and south of the MECO facility. Reportedly these materials were in the process of being removed from the site, and TRC did not observe any evidence of spills or releases associated with the materials.

5.3.2 Surrounding Properties

The local setting is predominantly undeveloped land with the exception of the MECO Plant and the existing Lanai Resorts, LLC industrial facility between the Site and Miki Road as well as the Lanai City airport to the northwest of the Site.

6.0 INTERVIEWS

The following persons were interviewed to obtain historically and/or environmentally-pertinent information regarding RECs associated with the Site.

- Mr. Thomas A. Hoen of Lanai Resorts, LLC – *Director of Development and Construction*
- Mr. Wayne Ishizaki of Lanai Resorts, LLC – *Site Contact*
- Mr. Todd McDonald of Lanai Fire Department - *Chief*

The information provided by each is discussed and referenced in the text and/or provided below. Other references and sources of information are included in **Appendix E**.

Mr. Hoen was unaware of any hazardous materials incidents, spills, illegal dumping, or any other potential environmental threats or conditions that may pose a past, present, or material threat of release to the Site.

Mr. Ishizaki was unaware of any hazardous materials incidents, spills, illegal dumping, or any other potential environmental threats or conditions that may pose a past, present, or material threat of release to the Site.

Mr. McDonald was unaware of any hazardous materials incidents, spills, or any other potential environmental threats or conditions that may pose a past, present, or material threat of release to the Site.

7.0 FINDINGS, OPINIONS AND CONCLUSIONS

Potential findings can include RECs, historical RECs (HRECs), and *de minimis* conditions, pursuant to the ASTM E 1527-13 standard.

RECs are defined as the presence or likely presence of any *hazardous substances* 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, ground water, or surface water of 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 threat to human 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.

HRECs are defined as an environmental condition which in the past would have been considered a REC, but which may or may not be considered a REC currently.

TRC has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 at the 200 acre property located on the west side of Miki Road with approximately 35 of the 200 acres located on the east side of Miki Road in Lanai City, Maui County, Hawaii (Site); see **Appendices F and G**. Deviations from this practice are described in Section 1.3 of this report.

7.1 RECs

This assessment has revealed no evidence of RECs in connection with the Site.

7.2 HRECs

This assessment has revealed no evidence of HRECs in connection with the Site.

7.3 De Minimis Conditions

This assessment has revealed no evidence of *de minimis* conditions in connection with the Site.

7.4 Data Gaps

TRC has made an appropriate inquiry into the commonly known and reasonably ascertainable resources concerning the historical ownership and use of the Site back to the first development per 40 CFR Part 312.24 (*Reviews of Historical Sources of Information*). TRC did not identify any data gaps during this assessment.

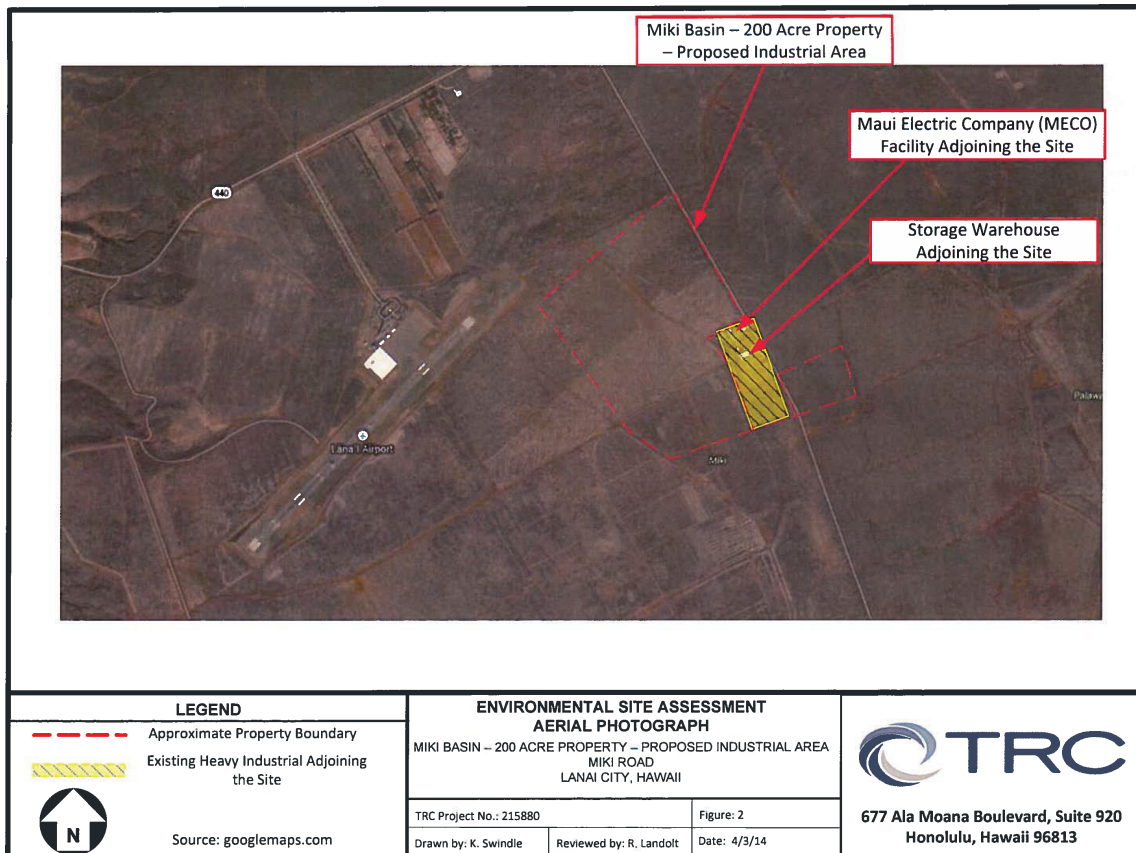
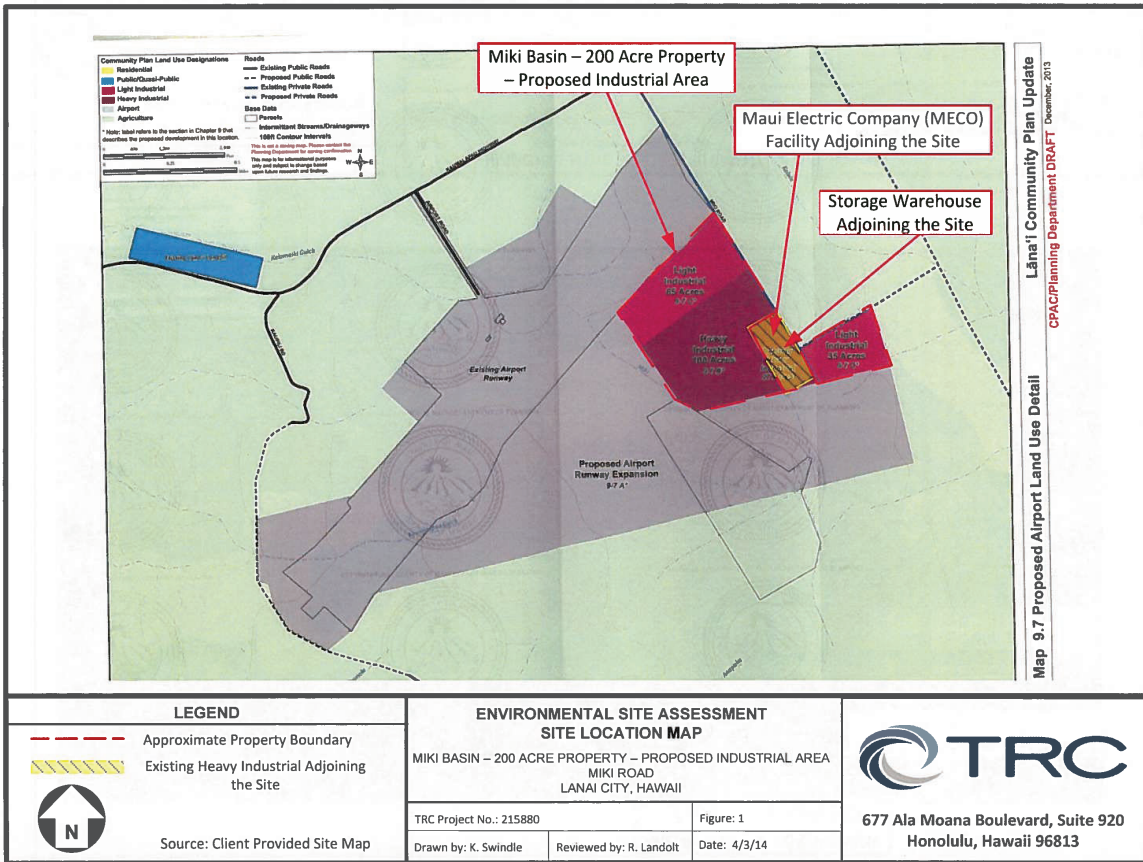
8.0 REFERENCES

Description/Title of document(s) received or agency contacted	Date information request filled/date of agency contact	Information Updated	Reference source
Environmental Data Resources	March 10, 2014	N/A	http://www.edrnet.com/
Federal Emergency Management Agency	March 31, 2014	N/A	http://www.fema.gov/
Hawaii Department of Health	March 10, 2014	N/A	http://health.hawaii.gov
Maui County Fire Department	March 11, 2014	N/A	Chief Todd McDonald via in person interview
Maui County – Assessor, Planning, Environmental Management	March 12, 2014	N/A	http://www.co.maui.hi.us

9.0 ADDITIONAL SERVICES

No additional services were performed for the Site during this Phase I ESA.

FIGURES



Miki Basin - 200 Acre Industrial Site
Miki Road & Kaumalapau Highway
Lanai City, HI 96763

Inquiry Number: 3875991.2s
March 10, 2014

APPENDIX A

DATABASE RADIUS REPORT

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

FORM-LBC-KKT

FEA REF-436

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MIKI ROAD & KAUMALAPAU HIGHWAY
LANAI CITY, HI 96763

COORDINATES

Latitude (North): 20.7904000 - 20° 47' 25.44"
Longitude (West): 156.9375000 - 156° 56' 15.00"
Universal Transverse Mercator: Zone 4
UTM X (Meters): 714689.2
UTM Y (Meters): 2300187.0
Elevation: 1247 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 20156-G8 ISLAND OF LANAI OE NW, HI
Most Recent Revision: Not reported

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Sites List

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Permitted Landfills in the State of Hawaii

State and tribal leaking storage tank lists

LUST..... Leaking Underground Storage Tank Database
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Control Sites

EXECUTIVE SUMMARY

INST CONTROL..... Sites with Institutional Controls

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Response Program Sites

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Sites

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CDL..... Clandestine Drug Lab Listing
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Release Notifications
SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators
DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
US MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

EXECUTIVE SUMMARY

SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
UIC.....	Underground Injection Wells Listing
DRYCLEANERS.....	Permitted Drycleaner Facility Listing
AIRS.....	List of Permitted Facilities
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
LEAD SMELTERS.....	Lead Smelter Sites
2020 COR ACTION.....	2020 Corrective Action Program List
EPA WATCH LIST.....	EPA WATCH LIST
COAL ASH DOE.....	Steam-Electric Plant Operation Data
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
US FIN ASSUR.....	Financial Assurance Information
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
PRP.....	Potentially Responsible Parties
Financial Assurance.....	Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Auto Stat.....	EDR Exclusive Historic Gas Stations
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank
RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health's Listing of Underground Storage Tanks.

A review of the UST list, as provided by EDR, and dated 12/04/2013 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

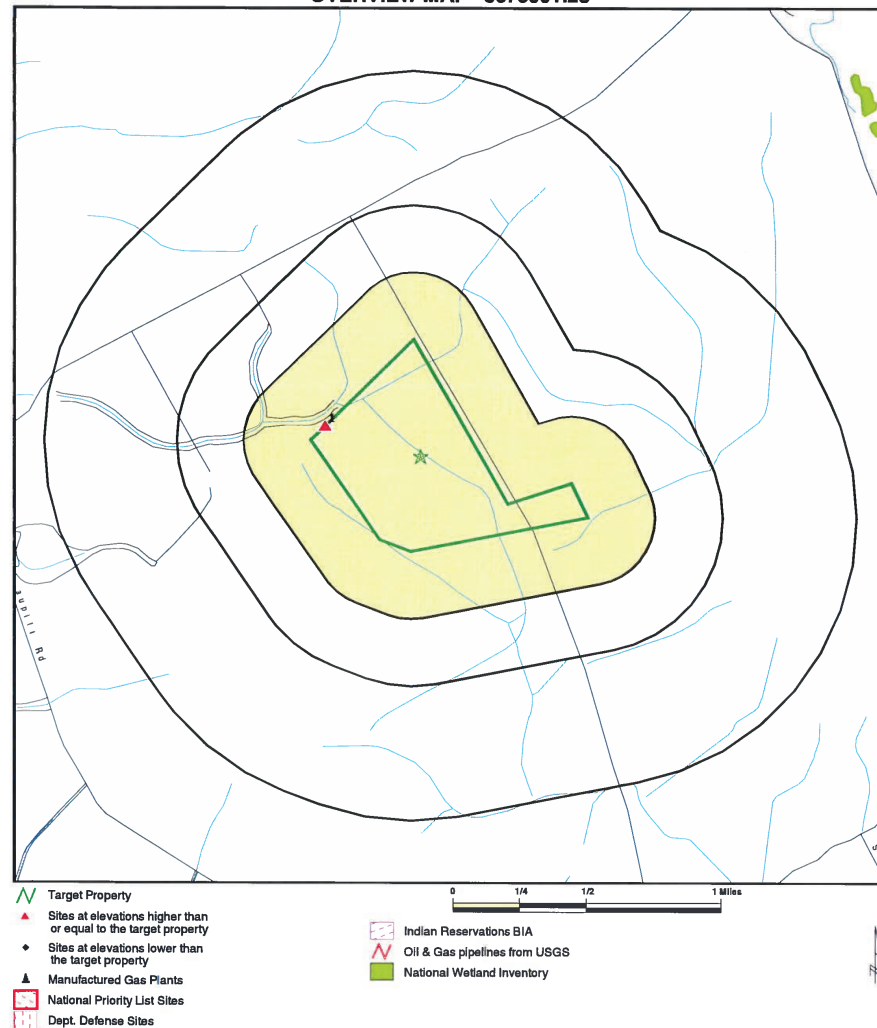
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LANAI AIRPORT (PMID LNY620123)	LANAI AIRPORT	WNW 0 - 1/8 (0.001 mi.)	1	7

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
CASTLE & COOKE - MANELE BAY	US AIRS
MAUI ELECTRIC CO - MIKI BASIN	FINDS, US AIRS
DOLE PLANTATION	RCRA-TSDF, CERC-NFRAP, RCRA
	NonGen / NLR, FINDS
LANAI LANDFILL	SHWS, RGA HWS
DOLE PLANTATION (PALAWAI & 5319 BA	SHWS, RGA HWS
LANAI LDFL	CERC-NFRAP
LANAI DUMP SITE PALAWI BASIN	CERC-NFRAP
LANAI DRUM SITE NO. 3	CERC-NFRAP
LANAI DRUM SITE NO. 2	CERC-NFRAP
LANAI DUMP SITE	CERC-NFRAP
LANAI DRUM SITE NO. 1	CERC-NFRAP
TRANSPORTATION SECURITY ADMINISTRA	RCRA-CESQG
KAUMALAPAU PETROLEUM TERMINAL	RCRA-CESQG, FINDS
MIKI BASIN GENERATING STATION	RCRA-CESQG, PADS
FAA - LANAI	FINDS
CASTLE & COOKE - MANELE BAY	FINDS
MIKI BASIN PAVING & FENCING	FINDS
MORRIS, CHARLES AND ROSS, NORMAN -	FINDS
MIKI BASIN GENERATING STATION	SPILLS, AIRS
MAUI ELECTRIC CO LTD MIKI BASIN PO	HAZNET

OVERVIEW MAP - 3875991.2s



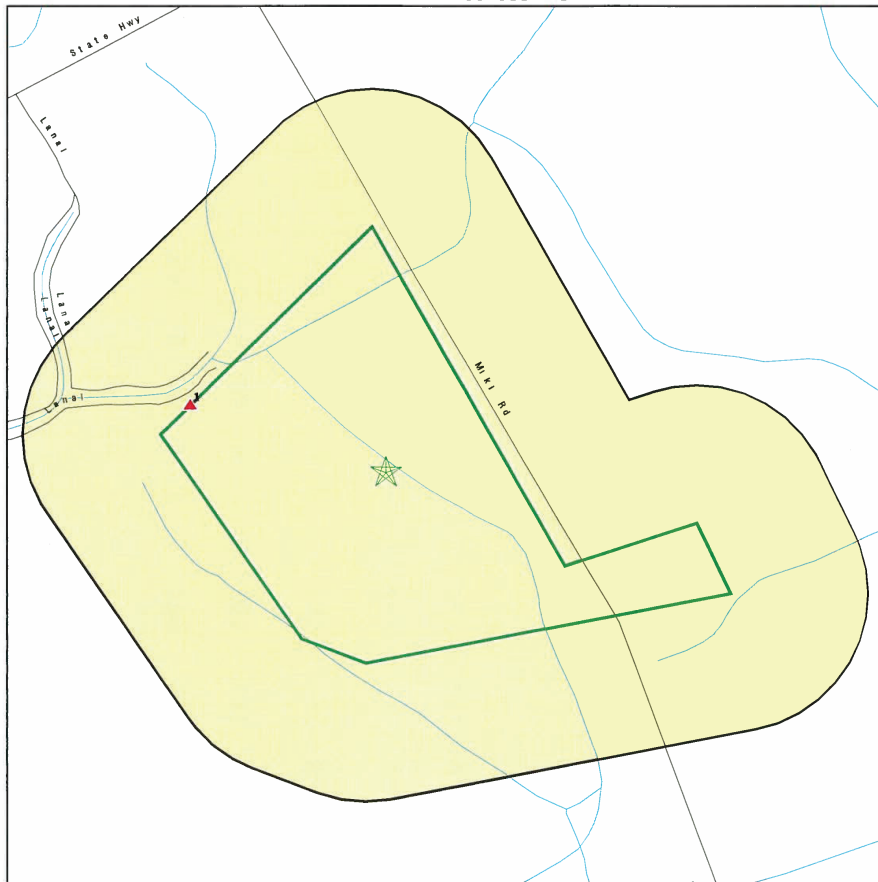
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Miki Basin - 200 Acre Industrial Site
 ADDRESS: Miki Road & Kaunalapau Highway
 Lanai City HI 96763
 LAT/LONG: 20.7904 / 156.9375

CLIENT: TRC
 CONTACT: Ron Landolt
 INQUIRY #: 3875991.2s
 DATE: March 10, 2014 5:26 pm

Copyright © 2014 EDR, Inc. © 2010 Tele Atlas Rel. 07/2009.

DETAIL MAP - 3875991.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Oil & Gas pipelines from USGS

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Miki Basin - 200 Acre Industrial Site
 ADDRESS: Miki Road & Kaunapapa Highway
 Lanai City HI 96763
 LAT/LONG: 20.7904 / 156.9375

CLIENT: TRC
 CONTACT: Ron Landolt
 INQUIRY #: 3875991.2s
 DATE: March 10, 2014 5:26 pm

Copyright © 2014 EDR, Inc. © 2010 Tels Allier Rel. 07/2008

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST	0.250		1	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<i>State and tribal institutional control / engineering control registries</i>								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
<i>State and tribal voluntary cleanup sites</i>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
<i>State and tribal Brownfields sites</i>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
<i>Local Brownfield lists</i>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<i>Local Lists of Landfill / Solid Waste Disposal Sites</i>								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<i>Local Lists of Hazardous waste / Contaminated Sites</i>								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<i>Local Land Records</i>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<i>Records of Emergency Release Reports</i>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<i>Other Ascertainable Records</i>								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1,000		0	0	0	0	NR	0
FUDS	1,000		0	0	0	0	NR	0
CONSENT	1,000		0	0	0	0	NR	0
ROD	1,000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1,000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
<u>EDR HIGH RISK HISTORICAL RECORDS</u>								
<i>EDR Exclusive Records</i>								
EDR MGP	1,000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
RGA HWS	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

Site

MAP FINDINGS

Database(s)

EDR ID Number
EPA ID Number

1
WNW
< 1/8
0.001 mi.
7 ft.

LANAI AIRPORT (PMID LNY620123)
LANAI AIRPORT
LANAI CITY, HI 96763

UST
U003222164
N/A

Relative:
Higher

Actual:
1310 ft.

UST:
Facility ID: 9-402985
Owner: STATE DOT - AIRPORTS DIVISION
Owner Address: Not reported
Ownder City,St,Zip: Lanai City, 96763 96763

Tank ID: R-1
Date Installed: Not reported
Tank Status: Permanently Out of Use
Date Closed: 06/29/1994
Tank Capacity: 350
Substance: Diesel

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LANAI	1003875123	LANAI LDFL	LANAI	96763	CERC-NFRAP
LANAI CITY	1015932482	FAA - LANAI	P.O. BOX 722	96763	CERC-NFRAP
LANAI CITY	1007447440	TRANSPORTATION SECURITY ADMINISTRA	KAUINALAPAU HWY	96763	RCRA-CESQG
LANAI CITY	1006815457	LANAI LANDFILL	KAUINALAPAU HWY	96763	SHWS, RGA, HWS
LANAI CITY	1000146613	KAUINALAPAU PETROLEUM TERMINAL	KAUINALAPAU HIGHWAY	96763	RCRA-CESQG, FINDS
LANAI CITY	1016079559	CASTLE & COOKE - MANELE BAY	MANELE BAY FACILITY	96763	FINDS
LANAI CITY	1008382103	MAUI ELECTRIC CO LTD MIKI BASIN PO	1001 N MIKI RD	96763	US AIRS
LANAI CITY	S113183480	MIKI BASIN GENERATING STATION	1001 N MIKI RD	96763	HAZNET
LANAI CITY	S107769303	MIKI BASIN PAVING & FENCING	MIKI ROAD	96763	SPILLS, AIRS
LANAI CITY	1010166528	MIKI BASIN GENERATING STATION	1001 N MIKI RD	96763	FINDS
LANAI CITY	1007092130	MAUI ELECTRIC CO - MIKI BASIN	1001 N MIKI RD	96763	RCRA-CESQG, PAOS
LANAI CITY	1001024214	DOLE PLANTATION (PALAWAI & 5319 BA	PALAWAI ST	96763	FINDS, US AIRS
LANAI CITY	1006820213	DOLE PLANTATION	PALAWAI & 5319 BASINS	96763	SHWS, RGA, HWS
LANAI CITY	1000198027	DOLE PLANTATION	BOUNDED BY FIELD NO. 5429, 54	96763	RCRA-TSDF, CERC-NFRAP, RCRA
LANAI ISLAND	1003875697	LANAI DUMP SITE PALAWI BASIN	NORTHWEST OF FIELD # 5319	96763	NonGen / NLR, FINDS
LANAI ISLAND	1003875695	LANAI DRUM SITE NO. 3	SOUTH OFF MIKI ROAD	96763	CERC-NFRAP
LANAI ISLAND	1003875694	LANAI DUMP SITE	SOUTHEAST OF FIELD #5311	96763	CERC-NFRAP
LANAI ISLAND	1003875696	LANAI DRUM SITE NO. 1	SEE BELOW	96763	CERC-NFRAP
LANAI ISLAND	1003875693	MORRIS, CHARLES AND ROSS, NORMAN -		96763	FINDS
MAUI COUNTY	1015780556				

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/21/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143	EPA Region 6 Telephone: 214-655-6659
--	---

EPA Region 3 Telephone 215-814-5418	EPA Region 7 Telephone: 913-551-7247
--	---

EPA Region 4 Telephone 404-562-8033	EPA Region 8 Telephone: 303-312-6774
--	---

EPA Region 5 Telephone 312-886-6686	EPA Region 9 Telephone: 415-947-4246
--	---

EPA Region 10 Telephone 206-553-8665	
---	--

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/09/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/09/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/10/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2013
 Date Data Arrived at EDR: 10/02/2013
 Date Made Active in Reports: 12/16/2013
 Number of Days to Update: 75

Source: EPA
 Telephone: 800-424-9346
 Last EDR Contact: 01/02/2014
 Next Scheduled EDR Contact: 04/14/2014
 Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
 RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/10/2013
 Date Data Arrived at EDR: 10/02/2013
 Date Made Active in Reports: 12/16/2013
 Number of Days to Update: 75

Source: Environmental Protection Agency
 Telephone: (415) 495-8895
 Last EDR Contact: 01/02/2014
 Next Scheduled EDR Contact: 04/14/2014
 Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
 RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013
 Date Data Arrived at EDR: 10/02/2013
 Date Made Active in Reports: 12/16/2013
 Number of Days to Update: 75

Source: Environmental Protection Agency
 Telephone: (415) 495-8895
 Last EDR Contact: 01/02/2014
 Next Scheduled EDR Contact: 04/14/2014
 Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/10/2013
 Date Data Arrived at EDR: 10/02/2013
 Date Made Active in Reports: 12/16/2013
 Number of Days to Update: 75

Source: Environmental Protection Agency
 Telephone: (415) 495-8895
 Last EDR Contact: 01/02/2014
 Next Scheduled EDR Contact: 04/14/2014
 Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013
 Date Data Arrived at EDR: 10/02/2013
 Date Made Active in Reports: 12/16/2013
 Number of Days to Update: 75

Source: Environmental Protection Agency
 Telephone: (415) 495-8895
 Last EDR Contact: 01/02/2014
 Next Scheduled EDR Contact: 04/14/2014
 Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/17/2013
 Date Data Arrived at EDR: 01/14/2014
 Date Made Active in Reports: 01/28/2014
 Number of Days to Update: 14

Source: Environmental Protection Agency
 Telephone: 703-603-0695
 Last EDR Contact: 12/09/2013
 Next Scheduled EDR Contact: 03/24/2014
 Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/17/2013
 Date Data Arrived at EDR: 01/14/2014
 Date Made Active in Reports: 01/28/2014
 Number of Days to Update: 14

Source: Environmental Protection Agency
 Telephone: 703-603-0695
 Last EDR Contact: 12/09/2013
 Next Scheduled EDR Contact: 03/24/2014
 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/20/2013
 Date Data Arrived at EDR: 11/21/2013
 Date Made Active in Reports: 02/24/2014
 Number of Days to Update: 95

Source: Department of the Navy
 Telephone: 843-820-7326
 Last EDR Contact: 02/14/2014
 Next Scheduled EDR Contact: 06/02/2014
 Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013
 Date Data Arrived at EDR: 10/01/2013
 Date Made Active in Reports: 12/06/2013
 Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
 Telephone: 202-267-2180
 Last EDR Contact: 02/07/2014
 Next Scheduled EDR Contact: 04/14/2014
 Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Sites List

Facilities, sites or areas in which the Office of Hazard Evaluation and Emergency Response has an interest, has investigated or may investigate under HRS 128D (includes CERCLIS sites).

Date of Government Version: 01/04/2014
 Date Data Arrived at EDR: 02/26/2014
 Date Made Active in Reports: 03/07/2014
 Number of Days to Update: 9

Source: Department of Health
 Telephone: 808-586-4249
 Last EDR Contact: 02/26/2014
 Next Scheduled EDR Contact: 06/09/2014
 Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWF/LF: Permitted Landfills in the State of Hawaii

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/17/2012	Source: Department of Health
Date Data Arrived at EDR: 04/03/2013	Telephone: 808-586-4245
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 12/30/2013
Number of Days to Update: 37	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 12/04/2013	Source: Department of Health
Date Data Arrived at EDR: 12/05/2013	Telephone: 808-586-4228
Date Made Active in Reports: 12/10/2013	Last EDR Contact: 03/03/2014
Number of Days to Update: 5	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013	Source: EPA Region 10
Date Data Arrived at EDR: 11/07/2013	Telephone: 206-553-2857
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013	Source: EPA Region 7
Date Data Arrived at EDR: 08/27/2013	Telephone: 913-551-7003
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 02/21/2014
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/21/2013	Source: EPA Region 4
Date Data Arrived at EDR: 11/26/2013	Telephone: 404-562-8677
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013	Source: EPA Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/30/2014
Number of Days to Update: 184	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/13/2014	Source: EPA, Region 5
Date Data Arrived at EDR: 02/14/2014	Telephone: 312-886-7439
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 01/27/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 12/04/2013	Source: Department of Health
Date Data Arrived at EDR: 12/05/2013	Telephone: 808-586-4228
Date Made Active in Reports: 12/10/2013	Last EDR Contact: 03/03/2014
Number of Days to Update: 5	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013	Source: EPA, Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 01/27/2014	Last EDR Contact: 01/30/2014
Number of Days to Update: 271	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013	Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013	Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013	Source: EPA Region 9
Date Data Arrived at EDR: 07/30/2013	Telephone: 415-972-3368
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 129	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013	Source: EPA Region 8
Date Data Arrived at EDR: 08/01/2013	Telephone: 303-312-6137
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 92	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/28/2013	Telephone: 913-551-7003
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011	Source: EPA Region 6
Date Data Arrived at EDR: 05/11/2011	Telephone: 214-865-7591
Date Made Active in Reports: 06/14/2011	Last EDR Contact: 01/27/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/13/2014	Source: EPA Region 5
Date Data Arrived at EDR: 02/14/2014	Telephone: 312-886-6136
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 11/21/2013	Source: EPA Region 4
Date Data Arrived at EDR: 11/26/2013	Telephone: 404-562-9424
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/13/2014
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Control Sites

A listing of sites with engineering controls in place.

Date of Government Version: 01/04/2014	Source: Department of Health
Date Data Arrived at EDR: 02/26/2014	Telephone: 404-586-4249
Date Made Active in Reports: 03/07/2014	Last EDR Contact: 02/26/2014
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Varies

INST CONTROL: Sites with Institutional Controls

Voluntary Remediation Program and Brownfields sites with institutional controls in place.

Date of Government Version: 01/04/2014	Source: Department of Health
Date Data Arrived at EDR: 02/26/2014	Telephone: 808-586-4249
Date Made Active in Reports: 03/07/2014	Last EDR Contact: 02/26/2014
Number of Days to Update: 9	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013	Source: EPA, Region 1
Date Data Arrived at EDR: 10/01/2013	Telephone: 617-918-1102
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/03/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Response Program Sites

Sites participating in the Voluntary Response Program. The purpose of the VRP is to streamline the cleanup process in a way that will encourage prospective developers, lenders, and purchasers to voluntarily cleanup properties.

Date of Government Version: 01/04/2014
Date Data Arrived at EDR: 02/26/2014
Date Made Active in Reports: 03/07/2014
Number of Days to Update: 9

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/26/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Sites

With certain legal exclusions and additions, the term 'brownfield site' means real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant.

Date of Government Version: 01/04/2014
Date Data Arrived at EDR: 02/26/2014
Date Made Active in Reports: 03/07/2014
Number of Days to Update: 9

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 02/26/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/24/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/04/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 65

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 08/04/2010
Date Data Arrived at EDR: 09/10/2010
Date Made Active in Reports: 10/22/2010
Number of Days to Update: 42

Source: Department of Health
Telephone: 808-586-4249
Last EDR Contact: 03/03/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2013	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/03/2014	Telephone: 202-366-4555
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/03/2014
Number of Days to Update: 52	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

SPILLS: Release Notifications

Releases of hazardous substances to the environment reported to the Office of Hazard Evaluation and Emergency Response since 1988.

Date of Government Version: 01/04/2014	Source: Department of Health
Date Data Arrived at EDR: 02/26/2014	Telephone: 808-586-4249
Date Made Active in Reports: 03/10/2014	Last EDR Contact: 02/26/2014
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 03/10/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/10/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/02/2013	Telephone: (415) 495-8895
Date Made Active in Reports: 12/16/2013	Last EDR Contact: 01/02/2014
Number of Days to Update: 75	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 02/06/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/19/2014
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/28/2014
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low, however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/05/2014
Next Scheduled EDR Contact: 06/16/2014
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.